

ANNUAL REPORT

FOR

Livingston County Drain Commissioner



**PREPARED IN COMPLIANCE WITH
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

PHASE II STORM WATER REGULATIONS

**GENERAL STORM WATER PERMIT
MIG619000**

and

**CERTIFICATE OF COVERAGE
MIG610202**

November 1, 2007

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List of Attachments

Attachment A: Summary of LCDC SESC permits issued; # of inspections/violations; LCDC permit procedures; LCDC soil erosion & sedimentation control technical specifications.

Attachment B: Summary of BMPs implemented on County owned property over the past year.

Attachment C: Documents of Soil Erosion training that LCDC staff received over the past year.

Attachment D: Evaluation summary from the Pollution Prevention/Good Housekeeping workshop that was put on by SEMCOG this past year, along with certificate received for attending the training.

Attachment E: Summary of septage received at the septage receiving station this past year, along with the amount of pollutants that would have otherwise been land applied. The Livingston County Ordinance banning land application of septage, as well as correspondence from the Livingston County Department of Public Health.

Attachment F: Phase II priority BMP activities for implementation

Attachment G: Correspondence from the Huron River Watershed council informing us that our MiCorp grant application was denied.

Attachment H: Livingston Clean Waterfest flyer and newspaper articles.

Attachment I: SEMCOG Partners for Clean Water annual report information.

Attachment J: Lake Newsletters from 2007

Attachment K: Newspaper articles from this past year.

Attachment L: Watershed presentation that was given twice over the past year.

Attachment M: Watershed sign locations that were installed over the past year.

Attachment N: Locations of storm drains being marked by Boy Scout troops

Attachment O: Correspondence with the DEQ regarding suspicious discharge found by the LCDC.

Attachment P: Riparian Living brochure.

Attachment Q: Wellhead protection areas in Livingston County as well as sign locations in Marion Township.

Attachment R: Summary of Sanitary system maintenance runs over the past year as well as a certificate received for training.

Attachment S: HRWC summary of activities from October 1, 2006 through September 30, 2007.

Attachment T: Summary of HHW collected during 2007

Attachment U: Subdivision Maintenance Schedule

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SWPPI Activity No.	BMP Activity	USR Watershed Goals and Objectives Addressed (See Table 1)	HCOL Watershed Goals Addressed (See Table 1)	Permit-Related Program/Requirement Addressed	Method of Implementation	Schedule	Methods of Measuring Progress (to be documented in SWPPI Annual Report)	Action Taken
LAND USE PLANNING								
1	Support Citizen Planner Program	3.3, 4.2, 4.3;		PEP; P-CRCP	<ul style="list-style-type: none"> Advertisement of program offered through the MSU-Extension office Municipal/planning staff attendance of program 	By year 2007	<ul style="list-style-type: none"> Mode of advertising used for program Number of municipal /planning staff to attend program Description of course topics covered 	<ul style="list-style-type: none"> Website for the citizen planner program was placed on livingstonwater.org website. Our website received 6,249 hits from March 1, 2007- October 23, 2007 Promoted the Citizen Planner workshop: Planning for Water Quality, taking place in Oakland County on December 3, 2007, by placing brochures at the front desk, and e-mailing the brochure to everyone on the Phase II stakeholder list. The course topics covered are: <ul style="list-style-type: none"> Water resource science Land use planning Water resource management planning Protecting water resources Human impacts on water Pollutants and runoff Strategies for coping with polluted runoff 3 residents of Livingston County completed the Citizen Planner course during this reporting period.
2	Support Farmland Preservation Program	5.1-5.3		P-CRCP	<ul style="list-style-type: none"> Use of available program funds by local government for preservation of agricultural land 	Wish List	<ul style="list-style-type: none"> Documentation of contracts and agricultural land acreage preserved through the program 	<ul style="list-style-type: none"> WISH LIST
3	Implement Soil Erosion and Sedimentation Control Ordinance/ Improve Enforcement	1.1, 1.3, 1.4, 2.1, 3.1, 4.1	1-5	CRCP; P-CRCP	<ul style="list-style-type: none"> LCDC to implement SESC Program/Ordinance through plan reviews and site inspections and enforcement procedures 	Ongoing track installation by 2008 Ordinance last updated on	<ul style="list-style-type: none"> Number of SESC permits issued annually LCDC to report annually on SESC inspection reports including: <ul style="list-style-type: none"> Violations Corrections Enforcement Procedures Track installation and 	<ul style="list-style-type: none"> Please refer to Attachment A to view the number of SESC permits issued as well as the number of inspections, violations and enforcement procedures. 85% of the permits issued are required to install silt fences and coarse aggregate tracking mats. At this time, we do not have a mechanism in place to show the number or BMPs installed over the past year,

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	nt of SESC Policies					08/24/04; Additional updates as needed.	<p style="text-align: center;">maintenance of construction site BMPs</p> <p>NOTE: The county last updated their soil erosion and sedimentation control ordinance on December 18, 2000 and currently implements and enforces the ordinance as part of its Soil Erosion and Sedimentation Control (SESC) Program which is implemented by the County's authority as a County Enforcing Agency (CEA) subject to Part 91 of PA 451.</p>	however, this is something we are looking into for the future.
4	Adopt and Implement Post-Construction Stormwater Management into the County's design standards	1.1-1.3, 2.1, 2.2, 3.1	1-5	P-CRCP	<ul style="list-style-type: none"> Development and incorporation of applicable language into the County's design standards that would regulate the post-construction stormwater management in County drains. 	Complete by 2008	<ul style="list-style-type: none"> Documentation of changes to our design standards. 	<ul style="list-style-type: none"> Complete in 2008
5	Adopt and Implement Resource Protection Overlay District Standards/ Adopt Overlay Zoning for Riparian Corridor	1.5, 3.2, 4.1, 5.1, 5.2	1-2, 4-6	P-CRCP	<ul style="list-style-type: none"> Development of GIS overlay of slope and soils to establish critical areas. 	Wish List	<ul style="list-style-type: none"> Documentation of GIS Overlay of critical areas. 	<ul style="list-style-type: none"> WISH LIST
6	Adopt Model Developme	1.1-1.5, 2.1, 2.2, 3.1-3.3, 4.1-4.3, 5.1,	2-6, 9	CRCP; P-CRCP	<ul style="list-style-type: none"> Development and adoption of new/updated design standards 	Ongoing	<ul style="list-style-type: none"> Documentation of updated design standards <p>NOTE:</p>	<ul style="list-style-type: none"> Updates have been made to our "Procedures and Design Criteria for Stormwater Management Systems and Soil Erosion and

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	nt Standards for Water Quality and Quantity Protection/ Incorporate Low-Impact Design Principles into Standards	5.2				Updates made to Design Criteria for Stormwater Management Systems in 2001. Additional updates to be made as necessary.	The "Procedures and Design Criteria for Stormwater Management Systems and Soil Erosion and Sedimentation Control Program" was updated in August 2001 to ensure the incorporation of language addressing water and natural resource protection throughout the county.	Sedimentation Control Program". This document can be found in Attachment 2 in the annual report from 2006.
7	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1.2, 1.7, 2.2, 2.3, 3.2, 4.1, 6.2, 6.3	1-2	IDEP	<ul style="list-style-type: none"> Development and adoption of ordinance Inspections and corrections of failing OSDS 	Wish List Adopting ordinance is under the jurisdiction of the Livingston County Environmental Health Department	<ul style="list-style-type: none"> Documentation of ordinance adoption Track number of inspections and correction procedures 	<ul style="list-style-type: none"> WISH LIST
8	Conduct Natural Features Inventories		5, 6, 8	P-CRCP	<ul style="list-style-type: none"> Conduct inventories of natural features 	Wish List	<ul style="list-style-type: none"> Documentation of identified natural features and the efforts taken to preserve/protect them 	<ul style="list-style-type: none"> WISH LIST
9	Incorporate Results of Conservati		1, 5, 6, 9	P-CRCP	<ul style="list-style-type: none"> Updates to local ordinances and policies that incorporate 	Wish List	<ul style="list-style-type: none"> Track number of local ordinances and policies incorporating conservation 	<ul style="list-style-type: none"> WISH LIST

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	on Planning Analyses into Local Ordinances and Policies				conservation planning analysis results		planning	
10	Adopt and Implement Floodplain Management Ordinance	1.1-1.5, 2.1, 2.2, 3.2, 4.1, 5.1, 5.2		P-CRCP	<ul style="list-style-type: none"> Development and adoption of ordinance 	Wish List	<ul style="list-style-type: none"> Documentation of ordinance adoption 	<ul style="list-style-type: none"> Floodplain management is primarily regarding land use in the floodplain, which is an issue for Township's, Cities, and Villages. Our adoption of a floodplain ordinance means nothing without participation by Township's, Cities and Villages. We have passively encouraged ordinance adoption, attended township meetings regarding this issue, and discussed it with Township officials,
AGRICULTURAL RUNOFF CONTROL								
11	Facilitate Generally Accepted Agricultural Management Practices (GAAMPs) /Provide Information and Education to Farmers	1.1-1.4, 1.6, 1.7, 2.1-2.4, 3.1, 3.3, 6.3	1-6	PEP; IDEP; PPGH	<ul style="list-style-type: none"> Work with the local NRCS office to disseminate information on GAAMPs to agricultural land owners Provide information on Livingston County Drain Commissioner website (provide link to NRCS website) 	Wish List	<ul style="list-style-type: none"> Track number and types of literature distributed (contact the NRCS for additional information for reporting purposes, if necessary) Public surveys Number of website hits and information contained on website 	<ul style="list-style-type: none"> WISH LIST
12	Install and Maintain Riparian Buffers	1.1-1.4, 2.1, 2.2, 3.1		P-CRCP; PPGH (Part I.B.2.a.1.b.5)	<ul style="list-style-type: none"> Work with the local NRCS to encourage the establishment of a buffer between the agricultural field and neighboring conveyance system 	Wish List	<ul style="list-style-type: none"> Track the number and location of farms incorporating buffers into their land management techniques (contact the NRCS for additional information) Track operation and 	<ul style="list-style-type: none"> WISH LIST

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							maintenance activities, if possible	
13	Install Grade Stabilization Structures	1.1, 1.4, 2.1	2-5	P-CRCP	<ul style="list-style-type: none"> Work with the local NRCS to encourage the use of grade stabilization structures needed on agricultural lands 	Ongoing	<ul style="list-style-type: none"> Track the number of structures in practice Track operation and maintenance activities, if possible 	<ul style="list-style-type: none"> Please refer to Attachment B to view the number of structures installed over the past year.
14	Utilize Conservation Cover	1.1, 1.4, 2.1	2-4	P-CRCP	<ul style="list-style-type: none"> Work with the local NRCS to encourage conservation cover 	Ongoing	<ul style="list-style-type: none"> Track acreage of land utilizing conservation cover 	<ul style="list-style-type: none"> Please refer to Attachment B to view the amount of conservation cover planted this past year.
15	Install and Maintain Sediment Trapping Devices	1.1, 1.2, 1.4, 2.1, 2.2	2-5	P-CRCP	<ul style="list-style-type: none"> Work with the local NRCS to encourage the use of sediment trapping devices on agricultural lands 	Ongoing	<ul style="list-style-type: none"> Track the number of sediment trapping devices in use Track operation and maintenance activities, if possible 	<ul style="list-style-type: none"> Please refer to Attachment B to view the number of sediment trapping devices installed over the past year.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

See #3	Implement Soil Erosion and Sedimentation Control Ordinance/ Improve Enforcement of SESC Policies	1.1, 1.3, 1.4, 2.1, 3.1, 4.1	1-5	CRCP; P-CRCP	See Land Use Planning Above	Ongoing		<ul style="list-style-type: none"> SEE #3
See #6	Adopt Model Development Standards for Water Quality and Quantity	1.1-1.5, 2.1, 2.2, 3.1-3.3, 4.1-4.3, 5.1, 5.2	2-6, 9	CRCP; P-CRCP	See Land Use Planning Above	Wish List		<ul style="list-style-type: none"> WISH LIST

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	Protection/ Incorporate Low-Impact Design Principles into Standards							
16	Implement and Enforce the Soil Erosion and Sedimentation Control (SESC) Program and Drainage Rules	1.1-1.4, 1.6, 2.1-2.4, 6.1, 6.3	1-5	CRCP; P-CRCP	<ul style="list-style-type: none"> Implementation of SESC Program/Ordinance through inspections and enforcement procedures for violations Implementation of Drainage Rules through site plan review and approval process 	Ongoing Updates made to Design Criteria for Stormwater Management Systems in 2001. Additional updates to be made as necessary.	<ul style="list-style-type: none"> Number of SESC permits issued annually LCDC to report annually on SESC inspection reports including: <ul style="list-style-type: none"> Violations Corrections Enforcement Procedures Track installation and maintenance of construction site BMPs 	<ul style="list-style-type: none"> SEE #3
17	Review and Revise Grading and Land Clearing Policies		2-5	CRCP; P-CRCP	<ul style="list-style-type: none"> Develop and adopt revisions to current policies 	Ongoing	<ul style="list-style-type: none"> Documentation of updates to policies 	<ul style="list-style-type: none"> This issue is regarding land use planning, of which the County has no authority over. Township, villages and Cities have the authority and the ability to review and revise grading and land clearing policies. Therefore, we would like to remove this activity from our SWPPI.
18	Provide Training to Municipal/ Agency	1.6, 2.1, 2.4, 3.1		CRCP; P-CRCP	Implement a training program to municipal/agency staff regarding implementation of the	Ongoing	<ul style="list-style-type: none"> Track number of staff trained and provide copies or overview of training materials 	<ul style="list-style-type: none"> 4 LCDC staff attended the Solid Erosion and Sedimentation Control Training this past spring. Please refer to Attachment C for a spreadsheet of the participants as well

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	Employees on SESC Program Implementation				SESC program		<ul style="list-style-type: none"> Track certifications received from MDEQ SESC/Stormwater Operator Certification or other applicable training program 	as the table of contents for the training are.
19	Construct/Maintain Stormwater Management Facilities	1.1-1.4, 2.1, 2.2, 3.1		CRCP; P-CRCP	<ul style="list-style-type: none"> Construct and maintain appropriate BMPs for stormwater management on Livingston County Drain Commissioner-owned properties 	Ongoing	<ul style="list-style-type: none"> Track the number and types of BMPs implemented Track operation and maintenance activities Calculate pollution reduction based on number and types of BMPs in use 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of BMPs implemented on County property.
POST-CONSTRUCTION RUNOFF CONTROL								
20	Adopt and Implement Stormwater Control Operation and Maintenance into the County's design standards.	1.1-1.3, 2.1, 2.2, 3.1		CRCP; P-CRCP; PPGH (Part I.B.2.a.1.b.1)	<ul style="list-style-type: none"> Development of requirements for commercial tie in with County Drains 	By 2008	<ul style="list-style-type: none"> Documentation of requirements for commercial tie in with County Drains. 	<ul style="list-style-type: none"> By 2008 for county operated systems For systems not operated by the county responsibility for stormwater operation and maintenance enforcement falls to local cities, villages, and townships.
See #6	Adopt Model Development Standards for Water Quality and Quantity Protection/ Incorporate Low-Impact	1.1-1.5, 2.1, 2.2, 3.1-3.3, 4.1-4.3, 5.1, 5.2	2-6, 9	CRCP; P-CRCP	See Land Use Planning Above	Wish List		<ul style="list-style-type: none"> WISH LIST

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	Design Principles into Standards							
See #7	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1.2, 1.7, 2.2, 2.3, 3.2, 4.1, 6.2, 6.3	1-2	IDEP; P-CRCP	See Land Use Planning Above	Wish List Adopting ordinance is under the jurisdiction of the Livingston County Environmental Health Department		<ul style="list-style-type: none"> WISH LIST
21	Install Grade Stabilization Structures	1.1, 1.4, 2.1	2-5	P-CRCP	<ul style="list-style-type: none"> Install and maintain grade stabilization structures on municipal-owned properties 	Ongoing	<ul style="list-style-type: none"> Track the number of structures in practice Track operation and maintenance activities 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of structures installed over the past year.
22	Utilize Conservation Cover	1.1, 1.4, 2.1	2-4	P-CRCP	<ul style="list-style-type: none"> Practice conservation cover on municipal-owned vacant/fallow lands 	Ongoing	<ul style="list-style-type: none"> Track acreage of land utilizing conservation cover 	<ul style="list-style-type: none"> Please refer to Attachment B on the amount of conservation cover planted over the past year.
23	Install and Maintain Sediment Trapping Devices	1.1, 1.2, 1.4, 2.1, 2.2	2-5	P-CRCP	<ul style="list-style-type: none"> Install and maintain sediment trapping devices on municipal-owned properties 	Ongoing	<ul style="list-style-type: none"> Track the number of devices in practice Track operation and maintenance activities 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of sediment trapping devices installed over the past year.
See #98 - #116	Implement Illicit Discharge Elimination Plan	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP; P-CRCP; PPGH	See Illicit Discharge Elimination Plan Activities Below	Ongoing; completed by 2010		<ul style="list-style-type: none"> Please view the Illicit Discharge Elimination Plan section of this annual report to review activities implemented.

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	(IDEP)							
24	Inventory Eroding Streambanks and Implement Streambank Stabilization Measures	1.1, 1.4, 2.1, 5.1	2, 4-5, 8	P-CRCP	<ul style="list-style-type: none"> Perform an inventory of streambanks to assess extent of existing erosion or erosion-inducing conditions Implement appropriate BMPs to stabilize eroding streambanks (to be followed by an assessment and eradication of the problem causing erosion to take place) 	Ongoing	<ul style="list-style-type: none"> Track the amount of streambanks stabilized Track the types of BMPs utilized to stabilize the streambank Evaluate BMP effectiveness over time Calculate pollution reduction based on BMP implementation Track operation and maintenance activities 	<ul style="list-style-type: none"> Please refer to Attachment B to find the number of drains stabilized. Drains were stabilized by using either rip-rap, or by placing topsoil, conservation cover and mulch on the streambanks.
25	Inventory Areas Lacking Stormwater Management for Retrofit Opportunities		2-4		<ul style="list-style-type: none"> Conduct stormwater management system inventory (i.e. detention basin inventory) Assess appropriate retrofit opportunities Implement retrofits to failing stormwater management systems 	Wish List	<ul style="list-style-type: none"> Documentation of inventory Documentation of retrofit projects Evaluation of BMP effectiveness over time 	<ul style="list-style-type: none"> WISH LIST
26	Install and Maintain Infiltration BMPs	1.1-1.4, 2.1, 2.2, 3.1	2-3, 5	P-CRCP	<ul style="list-style-type: none"> Install infiltration BMPs Maintain BMPs 	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track the number and type of BMPs installed Track operation and maintenance activities Calculate the estimated amount of pollution reduction based on BMP type 	<ul style="list-style-type: none"> Please refer to Attachment B for the number of Infiltration BMPs installed or maintained over the past year.
27	Install and Maintain Catch Basin Inserts	1.1, 1.4, 2.1	2, 4-5	P-CRCP	<ul style="list-style-type: none"> Installation and maintenance of catch basin inserts 	Wish List	<ul style="list-style-type: none"> Track the number and location of inserts used Track operation and maintenance activities 	<ul style="list-style-type: none"> Please refer to Attachment B to find the number of catch basins installed and maintained.
28	Control Soil Erosion/Sta	1.1, 1.4, 2.1	2-5	P-CRCP	<ul style="list-style-type: none"> Employ BMPs to minimize soil erosion Perform SESC 	Ongoing; Soil erosion	<ul style="list-style-type: none"> Track number and types of BMPs employed Track pollution reduction based 	<ul style="list-style-type: none"> 85% of the permits issued are required to install silt fences and coarse aggregate tracking mats. At this time, we do not have

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	Stabilize Soil on Construction Sites and Road Crossing Embankments				inspections and follow-up procedures for non-compliance at construction sites	ordinance	<ul style="list-style-type: none"> Track inspection and compliance status Track operation and maintenance activities 	<ul style="list-style-type: none"> a mechanism in place to show the number of BMPs installed over the past year, however, this is something we are looking into for the future. Please refer to Attachment A to view the number of permits issued, and how many inspections were complete over the past years. The LCDC Soil Erosion and Sedimentation Control Technical Specifications can also be found in Attachment 1 in the 2006 annual report.
29	Install and Maintain Oil/Grit Separators	1.1, 1.4, 2.1		P-CRCP	<ul style="list-style-type: none"> Construct and maintain oil/grit separators 	Ongoing	<ul style="list-style-type: none"> Track the number and location of separators Track operation and maintenance activities 	<ul style="list-style-type: none"> Please refer to Attachment B for the number of oil/grit separators installed this past year.
30	Replace Undersized Culverts/Repair Misaligned or Obstructed Culverts	1.1, 1.3, 1.4, 2.1	2-5	P-CRCP	<ul style="list-style-type: none"> Perform assessments of culverts needing replacement/reconstruction Perform replacements/construction in accordance with Drainage Standards and SESC Program 	Ongoing	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number of culverts replaced/repared 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of culverts replaced or maintained over the past year.
31	Construct and Maintain Infiltration Trenches	1.1-1.4, 2.1, 2.2, 3.1	2-5	P-CRCP	<ul style="list-style-type: none"> Construct and perform maintenance on infiltration trenches 	Wish List	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> WISH LIST
32	Install and Maintain Stormwater Retention/Infiltration Basins and other Infiltration	1.1-1.4, 2.1, 2.2, 3.1	2-5	P-CRCP	<ul style="list-style-type: none"> Construct and perform maintenance on stormwater retention/infiltration basin systems (or other applicable infiltration devices) 	Ongoing	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> During this past year, we did not install or maintain any retention basins in Livingston County. As proposals for new development arise there may be opportunities to maintain more in the future if new subdivisions are proposed or other developments are proposed to have public drainage.

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	Devices							
33	Install Grassed Swales	1.1-1.4, 2.1, 2.2, 3.1	2-5	P-CRCP	<ul style="list-style-type: none"> Install and maintain grassed swales 	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of grass swales installed or maintained over the past year.
34	Install and Maintain Extended Wet Detention Ponds	1.1-1.4, 2.1, 2.2, 3.1		P-CRCP	<ul style="list-style-type: none"> Install and maintain extended wet detention ponds 	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> Please refer to Attachment B on the number of wet detention ponds installed or maintained over the past year.
35	Maintain Rain Gardens (Bioinfiltration)	1.1-1.4, 2.1, 2.2, 3.1	2-5	P-CRCP	<ul style="list-style-type: none"> Maintain rain gardens or other bioinfiltration systems 	Wish List	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> WISH LIST
36	Initiate Hydrologic and Hydraulic Studies	1.9, 2.5, 3.4	3, 8-9	P-CRCP	<ul style="list-style-type: none"> Implement studies to better understand watershed conditions and determine appropriate BMPs and BMP locations for implementation for areas with altered hydrology 	Ongoing	<ul style="list-style-type: none"> Track data generated from studies Develop rating curves from data Track projects to restore natural hydrology of watershed area 	<ul style="list-style-type: none"> Please view Attachment S for a summary of the HRWC Adopt-a-stream activities in Livingston County over the last reporting period. On December 4, 2006 our office applied for the MiCORP start-up grant for water quality monitoring. This past spring we were told our application was denied (e-mail stating this can be found in Attachment G). We are planning to apply for the full MiCorp grant this coming fall. Our Phase II group met with representatives from MID-MEAC and Friends of the Shiawassee this past summer. We hope to partner with them on future water quality monitoring programs or river day clean-ups. On October 15th and 16th Becky Simpson attended the Mi-Corp training as well as annual conference at Higgins Lake. We previously have contributed funds to allow for hydraulic studies. One example of this would be the \$40,000 we expended

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SWPPI Activity No.	BMP Activity	USR Watershed Goals and Objectives Addressed (See Table 1)	HCOL Watershed Goals Addressed (See Table 1)	Permit-Related Program/Requirement Addressed	Method of Implementation	Schedule	Methods of Measuring Progress (to be documented in SWPPI Annual Report)	Action Taken
								out of red cedar drain district monies to enable modeling that resulted in floodplain mapping.
37	Develop and Implement a Coordinated Monitoring Strategy to Measure Water Quality, Water Quantity and Biota	1.6, 1.9, 2.4, 2.5	2-5, 8-10	P-CRCP	<ul style="list-style-type: none"> Utilize the CLMP or Adopt-A-Stream program to gain water quality data Assess MDEQ GLEAS Reports Assess <i>E. coli</i> monitoring reports produced by the LCDPH Partner with area schools that collect local stream data for information sharing Install water quality /quantity monitoring stations Perform road/stream crossing surveys 	Wish List	<ul style="list-style-type: none"> Track development of monitoring strategy Compile and evaluate monitoring data for compliance with Water Quality Standards as outlined in Appendix A 	<ul style="list-style-type: none"> On December 4, 2006 our office applied for the MiCORP start-up grant for water quality monitoring. This past spring we were told our application was denied (e-mail stating this can be found in Attachment G). We are planning to apply for the full MiCorp grant this coming fall. Our Phase II group met with representatives from MID-MEAC and Friends of the Shiawassee this past summer. We hope to partner with them on future water quality monitoring programs or river day clean-ups. On October 15th and 16th Becky Simpson attended the Mi-Corp training as well as annual conference at Higgins Lake.
38	Maintain Stormwater Retention/ Detention Basins	1.1-1.4, 2.1, 2.2, 3.1	2-3, 5	P-CRCP	<ul style="list-style-type: none"> Maintain stormwater retention/detention basins 	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> Please refer to Attachment B to view the number of retention/detention basins maintained over the past year.
39	Construct/ Maintain Wet Detention Ponds (Constructed Wetlands)	1.1-1.4, 2.1, 2.2, 3.1	2-5	P-CRCP	<ul style="list-style-type: none"> Construct and maintain wet detention ponds and/or constructed wetlands 	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> Please refer to Attachment B to view the number of wet detention basins constructed or maintained over the past year.
40	Implement Alternative Drain Practices	1.4	2-5, 9	P-CRCP	<ul style="list-style-type: none"> Utilize BMPs that restore previously maintained "drains" to a more natural state in order to 	Ongoing	<ul style="list-style-type: none"> Track the number and types of BMPs established along stream/riparian corridors Track operation and 	<ul style="list-style-type: none"> Please refer to Attachment B for the amount of conservation cover that was planted around our drains.

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	and Rehabilitation that Improves and Protects Stream and Riparian Habitats				enhance/protect riparian corridors and instream habitats		maintenance activities	
41	Encourage Native Landscaping in New Developments and Redevelopments/ Adopt Native Landscaping Ordinance	1.1-1.4, 2.1, 2.2, 3.1	1-5	P-CRCP; PPGH (Part I.B.2.a.1.b.5)	<ul style="list-style-type: none"> • Incorporate desired native landscaping specifications and design standards into stormwater management design manual • Provide information regarding native landscaping to our residents. 	Ongoing	<ul style="list-style-type: none"> • Documentation of design standard updates • Track maintenance of native landscaping areas 	<ul style="list-style-type: none"> • The LCDC 'Procedures and design criteria for Stormwater Management Systems and Soil Erosion and Sedimentation Control Program' does make references to natural buffer strips be maintained around the periphery of wetlands, as well as maintaining natural vegetation in buffers and filter strips. This document can be found in Attachment 2 in the 2006 annual report. • Please refer to Attachment B for the amount of conservation cover planted over the past year. • Many native landscaping flyers were available to residents at the LCDC front counter as well as handed out at events in Livingston County Please refer to the PEP portion of this annual report to find out how many flyers were distributed. These flyers were: <ul style="list-style-type: none"> ○ DEQ "Practical Tips for home and yard" flyers ○ SEMCOG "Choose earth-friendly landscaping" flyers ○ HRWC "Create beautiful gardens. native plants" brochures ○ CES "Landscaping for water quality" booklet ○ HRWC "Lawn and Garden" brochures ○ LCDC "Riparian Living"

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								<ul style="list-style-type: none"> August 1, the LCDC attended a workshop titled "residential rain gardens: design and maintenance of small-site rain gardens". The LCDC attended two LID tours this reporting period. One was on August 21st with the MWEA through Grand Rapids. We viewed many examples of native landscaping. The second tour was put on by Livingston and Oakland County Phase II groups. The tour was examples of detention pond retrofits, constructed wetlands, green roofs and rain gardens in Oakland and Washtenaw.
42	Install and Maintain Oil and Grease Traps (See also BMP 58: oil/grit separators)	1.1, 1.4, 2.1		P-CRCP	<ul style="list-style-type: none"> Install and maintain oil and grease traps 	Implement by 2010	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> Implement by 2010
43	Utilize In-Stream Habitat Restoration Techniques	1.4	5-7	P-CRCP	<ul style="list-style-type: none"> Assess appropriate use of in-stream habitat restoration techniques for stream/channels with lack of in-stream habitat Perform maintenance on BMPs 	Wish List	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed 	<ul style="list-style-type: none"> WISH LIST
44	Minimize/Reduce Directly Connected Impervious Areas (e.g. downspouts)	1.3, 3.1, 4.1	1, 3-5	P-CRCP	<ul style="list-style-type: none"> Disconnect/reduce directly connected impervious surface of municipal-owned facilities Encourage LID strategies in new developments and redevelopments 	Wish List	<ul style="list-style-type: none"> Track the number of BMPs implemented to reduce directly connected impervious surfaces 	<ul style="list-style-type: none"> WISH LIST
45	Maintain	1.9, 2.5, 3.4		P-CRCP	<ul style="list-style-type: none"> Investigate the feasibility 	Ongoing	<ul style="list-style-type: none"> Track installation of USGS 	<ul style="list-style-type: none"> Livingston County has one USGS gauge

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	USGS Gauge Station				of installing USGS Gauge Station(s) <ul style="list-style-type: none"> o Installation dependent on finding a suitable gauge stationing site; this can be coordinated with the help of a USGS representative 		Gauge Stations <ul style="list-style-type: none"> • Summarize and report on data collected 	station, which is located in the Huron River near Hamburg, MI. Data recorded from this gauge station can be found at http://waterdata.usgs.gov/mi/nwis/uv?04172000 <ul style="list-style-type: none"> • Livingston County financially participates in the local match support for this gauging station. 1/3 of the local match is paid for by the County by annual vote of Board of Commissioners
46	Utilize/Implement a Training Program for Livingston County Drain Commissioner Staff and/or Contractors regarding P-CRCP Activities (coordinate between a partnership with SEMCOG and the Southeast Michigan Partners for Clean Water) <ul style="list-style-type: none"> • Staff may 	ALL	ALL	ALL	Training Methods: <ul style="list-style-type: none"> • Workshops for management and staff • Fact Sheets • Web-based Training Modules/CDs • Evaluation/Recognition Processes • Prompts (signs, stickers, posters, etc.) • Videos 	Start when training materials are developed	<ul style="list-style-type: none"> • Provide letter of commitment to the MDEQ that the Livingston County Drain Commissioner plans to utilize training programs offered through SEMCOG and its partners or other organization as it relates to implementation of a P-CRCP • Number and types of training received • Results of evaluation processes • Publicity to local communities of training and certifications received by Livingston County Drain Commissioner staff • Increased awareness of the "Seven Simple Steps to Clean Water" campaign by stakeholders through distribution and evaluation of public surveys 	<ul style="list-style-type: none"> • Letter of Commitment can be found in Attachment 6 in the 2006 annual report. • On February 27 an employee of the Livingston County buildings and grounds and Becky Simpson attended the SEMCOG training "Keeping it Clean – Municipal Operations for Clean Water – Landscape practices. This training covered topics such as: <ul style="list-style-type: none"> o Hiring a landscape contractor o Landscape Design o Pesticide management o Native plants o Implementing an integrated pest management program o Introduction to integrated pest management o Fertilizer management o Lawn care o Protecting the riparian corridor o Invasive plant species o Planting practices o Selecting plants o Goose management o Woody debris management • An evaluation summary of this training as well as the certificate received can be found in Attachment D.

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	include public works /services directors and staff, parks and recreation departments, road commissions, contractors of permittees, and others under the Phase II storm water permit requirements							<ul style="list-style-type: none"> The LCDC will also be attending the next training session on November 1st "Keeping it clean – Municipal operations for clean water: Streets and parking lots."

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POLLUTION PREVENTION/GOOD HOUSEKEEPING								
47	Perform Maintenance Activities, Develop Maintenance Schedules and Implement Inspection Procedures for Livingston County Drain Commissioner-owned Stormwater Structural Controls			PPGH (Part I.B.2.a.1.b.1)	<ul style="list-style-type: none"> Inspections and needed maintenance will be performed on a determined schedule for each structural BMP owned by the Livingston County Drain Commissioner 	Ongoing; complete implementation by 2010	<ul style="list-style-type: none"> Inspection and maintenance procedures and schedules are detailed for each structural BMP listed in the Post-Construction BMPs Section Above 	<ul style="list-style-type: none"> The LCDC is designing a method to filter and clean the water before it is returned back to the drain. An initial test of a cleaning method in 2007 revealed the need for further testing which will likely be performed in 2008. In the interim water collected during the sediment removal process is discharged (during dry weather conditions only) back to catch basins that are upstream of a stormwater treatment device, such as a sedimentation basin or detention basin, in an effort to provide treatment of water prior to discharge. Our hope is to implement more sophisticated treatment in 2008 after which we intensify our catch basin cleaning. The LCDC subdivision maintenance schedule can be found in Attachment U A schedule for our dry-weather screening was submitted with our 2005 annual report.
48	Implement Controls for Reducing or Eliminating the Discharges of Water and Pollutants from Streets, Roads, and Highways; Parking			PPGH (Part I.B.2.a.1.b.2)	<ul style="list-style-type: none"> Appropriate BMPs will be installed, performed or maintained to ensure the discharge of pollutants to surface waters to the MEP 	Ongoing; complete implementation by 2010	<ul style="list-style-type: none"> Each BMP installed and maintained by the Livingston County Drain Commissioner is outlined in the Post-Construction BMPs Section Above and the PPGH BMP descriptions below 	<ul style="list-style-type: none"> There were no actions taken for this activity during this reporting period.

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	Lots; Maintenance Garages; and Storage Yards Owned by the Livingston County Drain Commissioner							
49	Implement Procedures for the Disposal of Operation and Maintenance Waste from the MS4 such as Accumulated Sediments, Floatables, and Other Debris			PPGH (Part I.B.2.a.1.b.3)	<ul style="list-style-type: none"> Solid and liquid waste cleaned from Livingston County Drain Commissioner-owned BMPs will be appropriately handled and disposed of 	Ongoing; complete implementation by 2010	<ul style="list-style-type: none"> For each BMP maintained by the Livingston County Drain Commissioner as outlined in the Post-Construction BMPs Section Above and the PPGH BMP descriptions below, the method of disposal for solid and liquid waste will be reported in each SWPPI Annual Report The following procedures should be documented: <ol style="list-style-type: none"> Methods of dewatering from catch basin cleanouts Solids disposed of in appropriate landfill Procedure for handling and disposing of known hazardous or toxic materials Cleaning of oil/water separators 	<ul style="list-style-type: none"> The LCDC is currently working on procedures of how to properly dispose of materials collected when cleaning catch basins as well as cleaning out drains. Procedures will be complete by 2010. All silt and any other solids collected from a catch basin or drain is disposed of in an appropriate landfill. Any Hazardous or toxic materials found are brought to our HHW building.
50	Implement Procedures to Ensure that Flood Management Control			PPGH (Part I.B.2.a.1.b.4)	<ul style="list-style-type: none"> Site Plan Reviews are completed by LCDC staff according to the Drainage Rules set forth by the LCDC's office and are assessed for 	Updates made to Design Criteria for Stormwat	<ul style="list-style-type: none"> Documentation of updated design standards as they are made Documentation of ordinances adopted 	The updated "Procedures and Design Criteria for Stormwater Management Systems and Soil Erosion and Sedimentation Control Program" can be found in Attachment 2 in the 2006 annual report.

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	Projects Assess Impacts on Water Quality of Receiving Waters				impacts to receiving waters for water quality control and flood management	er Management Systems in 2001. Additional updates to be made as necessary.	NOTE: The "Procedures and Design Criteria for Stormwater Management Systems and Soil Erosion and Sedimentation Control Program" was updated in August 2001 to ensure the incorporation of language addressing water and natural resource protection throughout the county for areas under county jurisdiction and townships that incorporate county standards.	
51	Implement Controls to Reduce the Discharge of Pesticides, Herbicides and Fertilizers on Livingston County Drain Commissioner-owned Property			PPGH (Part I.B.2.a.1.b.5)	<ul style="list-style-type: none"> • Grounds and maintenance staff to utilize integrated pest management techniques, low or no-phosphorus fertilizers, low or no-mow zones (especially next to water conveyance systems), use of native landscaping, etc. 	Education is ongoing	<ul style="list-style-type: none"> • Applicable BMPs are outlined in the P-CRCP and PPGH Sections of this SWPPI and actions will be reported in each SWPPI Annual Report 	<ul style="list-style-type: none"> • On February 27 an employee of the Livingston County buildings and grounds and myself attended the SEMCOG training "Keeping it Clean – Municipal Operations for Clean Water – Landscape practices. This training covered topics such as: <ul style="list-style-type: none"> ○ Hiring a landscape contractor ○ Landscape Design ○ Pesticide management ○ Native plants ○ Implementing an integrated pest management program ○ Introduction to integrated pest management ○ Fertilizer management ○ Lawn care ○ Protecting the riparian corridor ○ Invasive plant species ○ Planting practices ○ Selecting plants ○ Goose management ○ Woody debris management • An evaluation summary of this training can be found in Attachment D.
See #98 - #116	Implement Illicit Discharge	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP; P-CRCP; PPGH	See Illicit Discharge Elimination Plan Activities Below	Ongoing; Implement by 2010		<ul style="list-style-type: none"> • Please view the Illicit Discharge Elimination Plan section of this annual report to review activities implemented.

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	Elimination Plan (IDEP)							
See #19	Construct/Maintain Stormwater Management Facilities (owned by the permittee)	1.1-1.4, 2.1, 2.2, 3.1		CRCP; PPGH (Part I.B.2.a.1.b.1)	See Construction Runoff Control Above <ul style="list-style-type: none"> Provide details on maintenance activities, schedules and inspection procedures for stormwater structural controls owned by the permittee 	Ongoing	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed Provide documentation of inspection procedures 	<ul style="list-style-type: none"> SEE #19
See #27	Install and Maintain Catch Basin Inserts	1.1, 1.4, 2.1	2, 4-5	P-CRCP; PPGH	See Post-Construction Runoff Control Above	Ongoing; soil erosion ordinance	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of BMPs constructed Provide documentation of inspection procedures 	<ul style="list-style-type: none"> SEE #27
52	Implement Catch Basin Cleaning Program	1.1, 1.4, 2.1		PPGH (Part I.B.2.a.1.b.1)	<ul style="list-style-type: none"> Perform catch basin cleaning Dispose of collected sediment and debris in appropriate manner Develop and implement procedures for disposal of operation and maintenance waste collected from the MS4 (dredge spoil, accumulated sediments, floatables and other debris) 	By 2010	<ul style="list-style-type: none"> Track operation and maintenance activities Track the number and location of catch basins cleaned Provide documentation of inspection procedures Track debris removed and disposed of 	<ul style="list-style-type: none"> By 2010
53	Utilize Retired Engineer Technical Assistance	1.1, 1.2, 1.4, 1.6, 2.1, 2.2, 2.4		PPGH	<ul style="list-style-type: none"> Utilize RETAP Program 	Implement by 2007	<ul style="list-style-type: none"> Report on findings Report on improvements made based on findings 	<ul style="list-style-type: none"> RETAP was contacted to perform an assessment on our building, however, they do not provide energy efficiency assessments for publicly owned building. We are looking into having Rebuild

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	Program (RETAP) to Identify Improvements to Municipal Housekeeping Practices							<ul style="list-style-type: none"> Michigan Energy provide this service. A link to the RETAP website is available from the Counties Phase II website. Our website has received 6,249 hits from March 1, 2007 to October 23, 2007.
54	Perform Storm Sewer System Maintenance and Drain Cleaning	1.1-1.4, 2.1, 2.2, 3.1		PPGH (Part I.B.2.a.1.b.1)	<ul style="list-style-type: none"> Provide training to job-related public on proper management of infrastructure Perform storm sewer system cleaning and other maintenance activities. <ul style="list-style-type: none"> This could be performed as part of the IDEP dry weather screening work (i.e. perform visual inspections and look for degraded infrastructure or leaking infrastructure). In addition, the storm sewer system and/or open drains should be cleared of the buildup of sediment, trash or other debris on a regular basis to ensure the reduction of pollutants carried off by stormwater 	Ongoing	<ul style="list-style-type: none"> Track maintenance performed on BMPs Report on maintenance schedules Provide documentation of inspection procedures Provide information on disposal procedures 	<ul style="list-style-type: none"> Drains cleaned can be found in Attachment B. The LCDC is designing a method to filter and clean the water before it is returned back to the drain. An initial test of a cleaning method in 2007 revealed the need for further testing which will likely be performed in 2008. In the interim water collected during the sediment removal process is discharged (during dry weather conditions only) back to catch basins that are upstream of a stormwater treatment device, such as a sedimentation basin or detention basin, in an effort to provide treatment of water prior to discharge. Our hope is to implement more sophisticated treatment in 2008 after which we intensify our catch basin cleaning. All silt and solids taken out of a storm sewer system and drain is taken to an approved landfill. The LCDC Subdivision maintenance schedule can be found in Attachment U.

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					<p style="text-align: center;">inputs to the conveyances to the MEP.</p> <ul style="list-style-type: none"> Develop and implement procedures for disposal of operation and maintenance waste collected from the MS4 (dredge spoil, accumulated sediments, floatables and other debris) 			
55	Maintain Sanitary Sewer System Infrastructure	1.7, 2.3, 6.2		IDEP; PPGH (Part I.B.2.a.1.b.1)	<ul style="list-style-type: none"> Provide training to job-related public on proper management of infrastructure Perform maintenance on sanitary system infrastructure (i.e. Infiltration studies, sanitary sewer televising, smoke testing or dye testing may all be necessary to identify failures of cross-connections in a sanitary sewer system.) 	Ongoing	<ul style="list-style-type: none"> Track training received Track maintenance performed on BMPs Report on maintenance schedules Provide documentation of inspection procedures 	<ul style="list-style-type: none"> Sanitary Sewer System maintenance runs for this reporting period can be found in Attachment R. The Operation and Maintenance schedules can be found in Attachment 8 in the 2006 annual report. <ul style="list-style-type: none"> Members of our Sanitary Sewer crew attended a training workshop on pipe and cable locating. A certificate for this training can be found in Attachment R.
56	Manage Public Facilities (and permittee-owned facilities such as streets, roads, highways,	1.1, 1.2, 1.4, 1.7, 2.1-2.3, 6.2		PPGH (Part I.B.2.a.1.b.2)	<ul style="list-style-type: none"> Provide training to job-related public on proper management of public facilities Inspect and maintain public facilities 	Ongoing	<ul style="list-style-type: none"> Track training received Track maintenance performed on BMPs Report on maintenance schedules Provide documentation of inspection procedures 	<ul style="list-style-type: none"> Three LCDC employees will be attending the SEMCOG "Keeping it Clean: Municipal Operations for Clean Water – Streets and Parking lots" training on November 1.

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	parking lots, maintenance garages and storage yards)							
57	Manage Riparian Corridors	1.1-1.4, 1.6, 2.1, 2.2, 2.4, 3.1, 5.2		PPGH (Part I.B.2.a.1.b.5)	<ul style="list-style-type: none"> • Provide training to job-related public on proper management of riparian corridors • Minimize usage of pesticides and fertilizers along riparian corridors • Utilize low or no-mow zones along riparian corridors 	Ongoing	<ul style="list-style-type: none"> • Track training received • Track maintenance performed on BMPs • Report on maintenance schedules • Provide documentation of inspection procedures 	<ul style="list-style-type: none"> • Please view Attachment B to view the maintenance performed on our riparian corridors. • On February 27 an employee of the Livingston County buildings and grounds and myself attended the SEMCOG training "Keeping it Clean – Municipal Operations for Clean Water – Landscape practices. This training covered topics such as: <ul style="list-style-type: none"> ○ Hiring a landscape contractor ○ Landscape Design ○ Pesticide management ○ Native plants ○ Implementing an integrated pest management program ○ Introduction to integrated pest management ○ Fertilizer management ○ Lawn care ○ Protecting the riparian corridor ○ Invasive plant species ○ Planting practices ○ Selecting plants ○ Goose management ○ Woody debris management • An evaluation summary of this training can be found in Attachment D. • On February 28th our office submitted 3 grant applications with the Great Lakes Basin Program for soil erosion and sediment control, to construct 2-stage channels on three of our drains. After submittal, we were informed that the grant

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								money was cut from the budget.
58	Construct and Maintain Septage Receiving Station	1.4, 1.7, 2.3, 6.2, 6.3		IDEP; PPGH	<ul style="list-style-type: none"> Construction and operation of septage receiving station 	Station to be constructed within this permit cycle	<ul style="list-style-type: none"> Track progress on station development Track amount of septage received at station Calculate potential pollution reduction from septage that was not land-applied 	<ul style="list-style-type: none"> Septage receiving station is up and operational. Please view Attachment E for a summary of septage received as well as potential pollutants removed. Effective May 29, 2007 an ordinance was passed that banned all land application of septage. The ordinance well as correspondence from the Livingston County Department of Public Health can be found in Attachment E.
59	Utilize/Implement a Training Program for Livingston County Drain Commissioner Staff and/or Contractors regarding PPGH Activities (coordinated between a partnership with SEMCOG and the Southeast Michigan Partners for Clean Water) <ul style="list-style-type: none"> Staff 	ALL	ALL	ALL	<p>Training Methods:</p> <ul style="list-style-type: none"> Workshops for management and staff Fact Sheets Web-based Training Modules/CDs Evaluation/Recognition Processes Prompts (signs, stickers, posters, etc.) Videos <p>Training will be geared towards each segment of a PPGH plan as outlined in Part I.B.2.a.1.b.1-5 of the general permit (See Page 10 and 11 of 28 of the general permit)</p>	Implement when training is developed	<ul style="list-style-type: none"> Number and types of training received Results of evaluation processes Publicity to local communities of training and certifications received by Livingston County Drain Commissioner staff Increased awareness of the "Seven Simple Steps to Clean Water" campaign by stakeholders through public surveys 	<ul style="list-style-type: none"> Please refer to #46

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	may include public works /services directors and staff, parks and recreation departments, road commissions, contractors of permittees, and others under the Phase II storm water permit requirements							

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WATERSHED PLAN IMPLEMENTATION								
60	Implement Financial Solutions/ Conduct Work Sessions to Prioritize Specific Projects for Funding, Establish Estimated Costs, and Identify Funding Mechanisms	8.2, 8.3	9-10		<ul style="list-style-type: none"> Secure funding for watershed plan implementation projects 	Start implementing in 2006	<ul style="list-style-type: none"> Track prioritization for project funding, project cost estimates, and funding mechanisms Track implementation of various funding mechanisms and associated projects 	<ul style="list-style-type: none"> During the past year, the stakeholders in our Livingston County Phase II permit have put together a list of priority BMP activities to implement. This list can be found in Attachment F.
61	Seek Alternative Funding Sources		1-10		<ul style="list-style-type: none"> Secure funding for watershed projects Allocate staff to research and present funding opportunities 	Implement by 2008	<ul style="list-style-type: none"> Track number of proposals submitted Track dollars matched and raised Track projects associated with funding sources 	<ul style="list-style-type: none"> On December 4, 2006 our office applied for the MiCORP start-up grant for water quality monitoring. This past spring we were told our application was denied (e-mail stating this can be found in Attachment G). We are planning to apply for the full MiCorp grant this coming fall. On February 28th our office submitted 3 grant applications with the Great Lakes Basin Program for soil erosion and sediment control, to construct 2-stage channels on three of our drains. After submittal, we were informed that the grant money was cut from the budget.
62	Secure Funding and Develop		1, 8-10		<ul style="list-style-type: none"> Establish a monitoring program or partner with an existing monitoring program 	Wish List	<ul style="list-style-type: none"> Implementation of monitoring program Track results of monitoring program 	<ul style="list-style-type: none"> On December 4, 2006 our office applied for the MiCORP start-up grant for water quality monitoring. This past spring we were told our application was denied (e-mail stating

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	Partnerships to Conduct Monitoring							<p>this can be found in Attachment G). We are planning to apply for the full MiCorp grant this coming fall.</p> <ul style="list-style-type: none"> • Our Phase II group met with representatives from MID-MEAC and Friends of the Shiawassee this past summer. We hope to partner with them on future water quality monitoring programs or river day clean-ups. • On October 15th and 16th Becky Simpson attended the Mi-Corp training as well as annual conference at Higgins Lake.
63	Provide Sufficient Enforcement Capability	1.1-1.7, 2.1-2.4, 3.1, 3.2, 4.1, 5.1, 5.2, 6.3			<ul style="list-style-type: none"> • Allocate staff for enforcement of ordinances and policies 	Ongoing	<ul style="list-style-type: none"> • Track the number and types of staff allocated to enforcement of ordinances and policies • Track enforcement outcomes 	<ul style="list-style-type: none"> • The LCDC has three soil erosion inspectors that are in the field making sure residents and builders are upholding our soil erosion ordinance. • Please refer to #3 for enforcement outcomes.
64	Implement Institutional Framework for Watershed-Wide Actions/Establish a Long-Term Committee of Community/Entity Representatives to Promote Implementation of the WMP	8.1, 8.3, 8.4	1-10	ALL	<ul style="list-style-type: none"> • WAG/AC Meetings • WMP/SWPPI Modifications based on results of implementation 	Ongoing; meetings to occur on a quarterly basis	<ul style="list-style-type: none"> • Track meeting attendance • Updates reflected in WMP and SWPPI • All actions and results of WMP implementation to be documented in SWPPI annual reports 	<ul style="list-style-type: none"> • Phase II stakeholder meetings have been held almost every month over the past year. During the last reporting period there were 10 meetings. A representative from the LCDC attended every meeting. • Two year contract has been signed between all of the stakeholders to work together for planning and implementing our WMPs. This contract will expire May 2008.
65	Create	ALL	ALL	ALL	<ul style="list-style-type: none"> • Create partnerships with 	Ongoing	<ul style="list-style-type: none"> • Track the number and types of 	<ul style="list-style-type: none"> • The Phase II stakeholders have been

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	Partnerships with Institutions, Schools, and the Private Sector to Promote a Collaborative Effort in Watershed Management				SEMCOG, schools, local conservation groups, watershed groups, etc. to implement the WMP <ul style="list-style-type: none"> Implement specific watershed projects 	throughout permit cycle.	<ul style="list-style-type: none"> partnerships created Track the outcomes of supported projects through those partnerships 	creating partnerships with outside groups over the past year, many of which now attend our meeting. Our e-mail list-server now has representatives from: <ul style="list-style-type: none"> MDOT Washtenaw County Drain Commissioner Oakland County Drain Commissioner MSU-Extension Genesee County Pinckney Community Schools County residents SEMCOG Livingston Land Conservancy Huron Valley School District Please see attachment 11 from the 2006 annual report for the full list.
TOTAL MAXIMUM DAILY LOADS (TMDLS)								
66	Meet Established Total Maximum Daily Loads (TMDLs) in the USR Watershed (once developed)	1.8			<ul style="list-style-type: none"> Implement appropriate BMPs outlined in the TMDLS to be developed in the USR Watershed. <ul style="list-style-type: none"> These BMPs will relate to restoring fish and macroinvertebrate communities, as well as improve habitat that has been impacted primarily due to drainage projects. (See Page 143 of Chapter 4 in the USR WMP for reference)	To be developed in 2007 and 2009.	<ul style="list-style-type: none"> Report on the types of BMPs anticipated or already being implemented to address the TMDLs to be developed in 2007 and 2009 Report on operation and maintenance activities 	<ul style="list-style-type: none"> No TMDLs have been developed in the USR watershed
67	Meet Established TMDLs in		2		<ul style="list-style-type: none"> Implement appropriate BMPs outlined in the TMDLS that have been 	See Section	<ul style="list-style-type: none"> Report on the types of BMPs implemented to address the TMDLs that have been 	<ul style="list-style-type: none"> No actions were taken to meet established TMDLs in the HCOL watershed during this reporting period.

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	the HCOL Watershed (as well as those to be developed)				<p>developed and have yet to be developed in the HCOL Watershed.</p> <ul style="list-style-type: none"> ○ These BMPs will primarily address nutrient (phosphorus) loading. <p>(See Section 2.4 "Creekshed Reviews" of Chapter 2, Pages 62-87 of the HCOL WMP for reference)</p>	2.4 of HCOL WMP for schedules related to TMDLs	<p>developed and those that are anticipated for the TMDLs yet to be developed</p> <ul style="list-style-type: none"> • Report on operation and maintenance activities 	
PUBLIC INVOLVEMENT/PARTICIPATION								
68	Seek Participation from the Public at Upper-2 Shiawassee River (USR) Watershed Advisory Group (WAG) Meetings	1.6, 2.4, 4.2, 6.1		PEP; PIPP	<ul style="list-style-type: none"> • Encourage participation at WAG meetings for input 	Ongoing	<ul style="list-style-type: none"> • Track meeting attendees • Track feedback received 	<ul style="list-style-type: none"> • E-mail notices were sent to all stakeholders before every Phase II meeting. Our stakeholder list is included in Attachment 11 of the 2006 annual report. • All meeting minutes from the Livingston County Phase II permit effort watershed group meetings were distributed via e-mail to stakeholders.
69	Seek Input from the Public on Development of Ordinances for Water Quality and Quantity Protection	1.6, 2.4, 3.3, 4.1, 4.2		PEP; PIPP	<ul style="list-style-type: none"> • Publish press releases and public notices for feedback on ordinance development 	As ordinances are developed	<ul style="list-style-type: none"> • Track public hearings and feedback received 	<ul style="list-style-type: none"> • The Livingston County Phase II stakeholders have started a Stormwater Management Ordinance Subcommittee. Through this subcommittee, an ordinance was drafted and Green Oak Township has since adopted the ordinance. Marion Township is now looking at adopting it as well.

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70	Seek Participation from the Public at Watershed Events	1.6, 2.4		PEP; PIPP	<ul style="list-style-type: none"> • Advertise watershed events 	As events are held	<ul style="list-style-type: none"> • Track methods of advertisement • Track attendance at watershed events • Track number and types of watershed events 	<ul style="list-style-type: none"> • The LCDC sponsored a booth at "Volunteer Community" fair on April 17th. Our booth promoted the Livingston Clean Waterfest, MSU Extension soil test, and the HHW disposal calendar. The following materials were picked up by visitors: <ul style="list-style-type: none"> ○ 4 "7 simple steps to clean water" brochures. ○ 21 Livingston Clean Waterfest flyers. ○ 10 Household hazardous waste brochures ○ 8 home composting flyers ○ 14 Waste reduction guides • The LCDC sponsored a booth on earth day at the Livingston County courthouse in downtown Howell. The following materials were picked up by visitors: <ul style="list-style-type: none"> ○ 6 "7 simple steps to clean water" brochures. ○ 17 Livingston Clean Waterfest flyers. ○ 10 Household hazardous waste brochures ○ 8 home composting flyers ○ 14 Waste reduction guides • The Livingston County Drain Commissioner's office hosted the third annual "Livingston Clean Waterfest" on June 9th, 2007 at the City of Howell Park. Over \$6,000 was raised towards the event, and approximately 600 residents attended the event on watershed awareness and participated in environmental activities. The following details how the event was advertised, who participated and what activities were held throughout the day. <ul style="list-style-type: none"> ○ Advertisements <ul style="list-style-type: none"> ▪ 100 posters were displayed on county buildings, city buildings, township halls, and local businesses

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								<ul style="list-style-type: none"> ▪ WHMI 93.5, the Livingston County radio station announced the event and played an interview with Becky Simpson many times before the event ▪ Event guides were sent to the Livingston County Board of Commissioners, township halls, county buildings, city buildings and approximately 7,000 flyers were sent to students in elementary schools in Howell. A copy of the event guide can be found in Attachment H of the annual report. ▪ Five newspaper articles announced the event. May30, 2007 the Livingston County Press & Argus "Waterfest spreads the word about helping environment", Livingston County Press & Argus "Waterfest to focus on outdoor fun", April 9, 2007 Livingston County Press & Argus "Student's frog becomes symbol of clean water", Livingston County Press & Argus "Artist, 10 makes his mark in contest", Parent Pipeline "Livingston Waterfest reaches out to kids". These articles can be found in Attachment H of the annual report ▪ Livingston Clean Waterfest ad was printed in the three LCDC Lake Newsletters in May 2007. ○ Activities <ul style="list-style-type: none"> ▪ Fishing tournament, ▪ fish printing ▪ face painting ▪ casting lessons ▪ environmental scavenger hunt

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								<ul style="list-style-type: none"> ▪ minnow races ▪ environmental displays ▪ free lunch and t-shirts ○ Booths <ul style="list-style-type: none"> ▪ Sierra Club ▪ Ducks Unlimited ▪ Livingston Land Conservancy ▪ Brighton Recreational Area ▪ Southeast Michigan Land Conservancy ▪ Island Lake Recreation Area ▪ Livingston Conservation District ▪ Huron River Watershed Council ▪ Michigan Forest Association ▪ Michigan Lakes and Streams Association ▪ Lake Chemung Riparian Association ▪ Woolly Bugger Fly Fishers ▪ Howell Nature Center. ▪ Great Lakes Commission ▪ Kensington Metro park ▪ Recycle Livingston ▪ Michigan Nature Association • The LCDC sponsored a booth at the Livingston Conservation District Field Day on September 22nd. The following materials were picked up by visitors: <ul style="list-style-type: none"> ○ 5 "7 simple steps to clean water" brochures. ○ 54 waterfest bags with native seeds inside. ○ 12 Waste reduction guides ○ 5 Household hazardous waste brochures ○ 40 Keep America Beautiful "Every Drop Counts" kids activity books. ○ 40 watershed bracelets ○ Signed up 40 kids to join the Livingston County Pollution Solution squad. To do

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								<p>this, the kids had to make 4 promises</p> <ul style="list-style-type: none"> ▪ Keep trash and litter out of storm drains and road side ditches ▪ Pick up after your pet ▪ Turn off the water while brushing your teeth ▪ Tell your friends how to keep your water clean.
71	Increase Public Involvement in Adopt-a-Stream (or related) Programs	1.6, 1.9, 2.4, 2.5		PEP; PIPP	<ul style="list-style-type: none"> • Advertise programs and encourage participation • Actively seek volunteer recruits through schools and other watershed organizations (such as the HRWC) 	Throughout program implementation	<ul style="list-style-type: none"> • Track types of programs implemented in the watershed • Track number of volunteers in program • Track water quality data collected 	<ul style="list-style-type: none"> • There are 3 volunteer monitoring events that occur in Livingston County through the adopt-a-stream program. They are: <ul style="list-style-type: none"> ○ River Round-up ○ Measuring and Mapping ○ Stonefly Search • Please view Attachment S for a summary of the number of volunteers from Livingston County that helped during these events.
PUBLIC EDUCATION PLAN (PEP) APPROVED ACTIVITIES								
72	Southeast Michigan Partners for Clean Water Informational Materials	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • Distribution of 7 Simple Steps to Clean Water campaign informational materials. • Distribution of Watershed Placemats (kids activity sheet). 	Distribute throughout permit cycle;	<ul style="list-style-type: none"> • Number of brochures, tip cards, magnets, pens, paper pads, etc. distributed. • Number and type of posters on display at Livingston County offices. • Number of restaurants receiving placemats and number of placemats distributed. • Number of local events that informational materials were distributed at. • Types of information posted on Livingston County Drain Commissioner's stormwater website. • Number of website hits 	<ul style="list-style-type: none"> • The LCDC purchased 200 "Seven Simple Step" brochures and tip cards, 100 SEMCOG activity placemats, and 100 "Seven simple step" magnets. • At the "Volunteer Community" fair on April 17th, 4 "Seven simple step" brochures were distributed. On April 21 at the Earth Day event, 6 "seven simple step" brochures were distributed. During the Livingston Conservation District Field day on September 22nd, 5 "seven simple step" brochures were distributed. • The LCDC posted each of the "Seven Simple Steps to Clean Water" posters at our front desk for residents to view. • The LCDC distributed 105 "Seven Simple Step" activity sheets to schools in Howell and Brighton and Pinckney.

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								<ul style="list-style-type: none"> • At the "Spring Fling" held at the Brighton Recreational Area on May 6, 2007, "Seven Simple Steps" brochures were distributed. • At each of the events that we attended, the "Seven Simple Steps" Display was there. • On January 11th, Becky Simpson gave a watershed presentation to 40 members of the Brighton Garden Club. The presentation was based on the seven simple steps. SEMCOG seven simple step brochures and magnets were distributed. • On February 26th, Becky Simpson gave a watershed presentation to 40 members of the Brighton Senior man's club. The presentation was based on the seven simple steps. SEMCOG seven simple step brochures and magnets were distributed. • 96 SEMCOG activity placemats were distributed during the elementary school watershed presentation. • There is a link from our County's Phase II website to the "Seven Simple Steps" website. From March 1, 2007 to October 23, 2007 there were 6,249 hits on the Phase II website
73	Community Watershed Calendar	1.6, 2.4, 3.3	1, 4.c, 5.d	PEP	<ul style="list-style-type: none"> • Distribution of calendar that highlights information on watershed awareness and tips to help prevent pollution from entering area waterways. 	Distribution will occur in Years 2 and 4 of the permit cycle.	<ul style="list-style-type: none"> • Number of calendars distributed. • Number of surveys returned that are included with calendars. • Track changes in survey responses over time to reflect increased knowledge/awareness of watersheds and the impacts of nonpoint source pollution. 	<ul style="list-style-type: none"> • LCDC ordered 200 2008 HRWC calendars
74	Southeast Michigan Partners for Clean Water	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • Public Service Announcements (PSAs) regarding the 7 Simple Steps for Clean Water will be aired on Comcast 	Spring and Fall throughout the permit	<ul style="list-style-type: none"> • Number and type of media promotion events. • Number and types of programs aired on the local cable access channel. 	<ul style="list-style-type: none"> • Please view Attachment I for SEMCOG's mass media effort.

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	Mass Media Efforts				<p>Cable Television and local radio stations.</p> <ul style="list-style-type: none"> The LCDC may augment this program by working directly with the local media. 	cycle.		
75	Information in Lake Association Newsletters	1.4, 1.6, 1.9, 2.4, 2.5, 3.4	1, 2.c, 3.b, 4.c, 4.d, 5.d, 5.f, 8, 9.b	PEP	<ul style="list-style-type: none"> Newsletters will contain information regarding tips on nonpoint source pollution prevention, watershed awareness and watershed stewardship. 	Bi-annually throughout the permit cycle.	<ul style="list-style-type: none"> Number of newsletters distributed. Messages conveyed in newsletters. Frequency of articles published. 	<ul style="list-style-type: none"> The LCDC published 1,200 newsletters for residents on Thompson Lake, Lake Tyrone and Cedar Lake in May and October, 2007. The May and October 2007 newsletters can be found in Attachment J. These newsletters contained tips on: <ul style="list-style-type: none"> fertilizing sparingly Washing cars on grass or at a car wash Livingston Clean Waterfest Proper disposal of water softener wastes keeping pollution out of storm drains battery recycling household hazardous waste collections Native riparian buffer Cooperative lakes monitoring program
76	Website Information	1.6, 2.4, 3.3, 4.2, 4.3, 6.1	1, 2.c, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> The LCDC maintains a Phase II stormwater website link with information regarding the six elements of the PEP. A link is also provided to SEMCOG's "7 Simple Steps to Clean Water" campaign. 	Begin in Year 1 and continue throughout permit cycle.	<ul style="list-style-type: none"> Number of website hits. Types of information available on website. 	<ul style="list-style-type: none"> The LCDC Phase II Website was established in December of 2004, http://co.livingston.mi.us/drain/phaseII/ From March 1, 2007 to October 23, 2007, the site received 6,249 hits. The site contains information on: <ul style="list-style-type: none"> Watershed awareness NPDES Phase II storm water program Advertisement for local watershed events and workshops LCDC PEP, PIP, IDEP, SWPPI, and previous annual reports HCOL and USR WMP Links to various environmental organizations and informational websites <ul style="list-style-type: none"> Link to the LCDC solid waste website for tips on household hazardous waste.

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								<ul style="list-style-type: none"> ○ A link to the Livingston County Department of Public Health's (LCDPH) website on proper on-site septic disposal systems operations and maintenance. • LCDC Website has a link to SEMCOG's website, which receives an average of 9,000 hits per month on their Seven Simple Steps for Clean Water. • The LCDC created a new domain that will connect residents to the County Phase II website. www.livingstonwater.org will be placed on all of our watershed signs, and brochures to help residents find more information on watershed awareness.
77	Cable Access/Community Billboard	1.6, 2.4, 3.3, 4.2, 4.3, 6.1	1, 2.c, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • All key messages of the PEP will be addressed through videos, PSAs, and text materials provided by SEMCOG, HRWC, Wayne County Department of Environment (WCDOE), etc. on the local cable access channel. 	Begin in Year 1 and continue throughout permit cycle.	<ul style="list-style-type: none"> • Type of information aired and the dates of airing. 	<ul style="list-style-type: none"> • Marion Twp. Cable Access Channel aired many PSA's over the year. The topics touched on were: Recycle Livingston, Recycling, HHW schedule, and the wetland inventory. • "Livingston Clean Waterfest" advertisement was aired numerous times on the City of Howell local cable access channel. The commercial highlighted the importance of watershed awareness and activities that were taking place during the event.
78	Newspaper Advertisements	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • The LCDC, in coordination with the HRWC, will coordinate the efforts to have PSAs that cover the "7 Simple Steps" campaign, in addition to PEP elements 1-5, in local newspapers. 	Begin in Year 1 and on-going throughout permit cycle.	<ul style="list-style-type: none"> • Frequency and number of advertisements run. • Number of inquiry calls received as a result of advertisements. 	<ul style="list-style-type: none"> • Please view Attachment H for the 5 articles that were written about Waterfest. <ul style="list-style-type: none"> ○ Many calls were received after articles were published. • The Livingston County Press and Argus wrote an article "Watershed signs making a splash". On September 21, the Ann Arbor News wrote an article "Signs aim to educate people about keeping water clean". These articles can be found in Attachment K.
79	Water Quality	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • The LCDC will utilize water quality displays 	Begin in Year 1;	<ul style="list-style-type: none"> • Number of events attended with displays. 	<ul style="list-style-type: none"> • The LCDC Water Quality display was put up at the following events: Volunteer

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	Displays				<p>available through themselves and/or SEMCOG to disseminate information regarding the six elements of the PEP.</p> <ul style="list-style-type: none"> The LCDC will have informational brochures, booklets, pamphlets, fliers, etc. available for pickup by visitors to the LCDC office. 	on-going throughout permit cycle.	<ul style="list-style-type: none"> Number and types of information disseminated. 	<p>Community Fair on April 17th , Howell Courthouse on April 21, Livingston County Homeshow on March 31, Brighton Spring Fling on May 6th, Livingston Clean Waterfest on June 9th, and the Livingston Conservation District Field Day on Sept. 22</p> <ul style="list-style-type: none"> The following brochures, booklets, pamphlets and fliers were distributed to residents visiting the LCDC office during the past year, all of which are in Attachment 12 in the 2006 annual report: <ul style="list-style-type: none"> 16 SEMCOG "7 simple steps to clean water" brochures and tip cards 10 CES "Landscaping for water quality" 22 HRWC "Adopt-A-Stream" brochures 9 HRWC "Create beautiful gardens using native plants" brochures 15 LCDPH "Your Septic System for Homeowners" brochure 14 CLMP brochures MLSA "Lakeside Landscaping and Lawn care" brochures 10 Wellhead protection brochures 15 Riparian Living brochures The following events were promoted at the LCDC front desk throughout the year: <ul style="list-style-type: none"> Livingston County Homeshow MSU Extension soil testing Livingston Clean Waterfest LCDC Household Hazardous waste collections calendar Livingston County motor oil recycling 2nd annual Hamburg Twp. Huron River clean-up day SEMCOG "Keeping it Clean - municipal operations for clean water" workshop Livingston Conservation District Field Day

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								<ul style="list-style-type: none"> ○ Brighton Twp. Riparian Workshop ○ Brighton Recreational Area Spring Fling ○ HRWC Stonefly search
80	Promotion of Water Resource Protection Workshops	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> • Workshops will be promoted through the use of advertisements, email distribution lists to stakeholders, flyers, etc. • Workshops will target the six elements of the PEP, in addition to other components of the Phase II storm water program. 	On-going throughout permit cycle.	<ul style="list-style-type: none"> • Number and types of workshops held. • Number of attendees at each workshop. 	<ul style="list-style-type: none"> • The LCDC Office gave 4 presentations in schools from grades 4 - 5 on the effects of pollution on our lakes, rivers, and streams. Overall, 96 students attended our presentations at Northwest and Livingston Christian schools located in Howell and Pinckney. The presentations used the Enviroscape model and touched on the following topics. <ul style="list-style-type: none"> ○ Importance of fresh water. ○ Watershed awareness ○ Where drinking water comes from. ○ Water Cycle. ○ Effects of pollution on our watershed. ○ Demonstration using the Enviroscape, where the kids would sprinkle the "pollutants" onto the model and watch what happens to them when it rains. Surveys were given to the kids both before and after the presentation. The percent of kids who knew what a watershed was before the presentation was 63%. The amount of kids that knew what a watershed was after the presentation was 89%. The amount of kids that knew that anything that went down a storm drain went directly into a lake river or stream was 39%. The amount of kids that knew this after the presentation was 85%. The itinerary for the presentation and survey are both in Attachment 16 in the 2006 annual report. SEMCOG activity placemats and Home scavenger hunt created by Riversmart was given to all the kids in attendance. <ul style="list-style-type: none"> • The LCDC office helped to promote a "Shoreline Protection" Workshop put on by

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								<p>MSU-Extension on September April 17, 2007. We helped to promote this workshop by e-mailing the brochure to everyone on our lakes list-serv.</p> <ul style="list-style-type: none"> The LCDC promoted the Michigan recycling coalition workshop "Food waste diversion and utilization". 50 brochures were handed out to various restaurants around the County. These workshops took place on August 15th and 16th at various locations. Becky Simpson gave two watershed presentations this reporting period. One on January 11th to the Brighton Garden Club and one on February 26th to the Brighton Senior Man's club. At each presentation there were 40 attendees. The presentation can be found in Attachment L. Landscape for Water Quality as well as SEMCOG brochures and magnets were distributed.
81	Promotion and Support of Volunteer Stream/Lake Monitoring	1, 2, 3.4	1, 2.a, 2.d, 4.d, 5.c, 5.f, 8	PEP	<ul style="list-style-type: none"> The LCDC will work in coordination with the HRWC to promote the Adopt-A-Stream Program. Promotion of program will occur through availability of Adopt-A-Stream Literature and posting of volunteer event opportunities on the LCDC website. The LCDC will promote volunteer participation in the Cooperative Lakes Monitoring Program (CLMP) through availability of CLMP literature and posting of 	Start promotions in Year 1; ongoing throughout permit cycle.	<ul style="list-style-type: none"> Number of volunteers in each program and the location of sampling/investigation. Compilation of promotion efforts. Results from monitoring reported annually. 	<ul style="list-style-type: none"> The LCDC has promoted the HRWC Adopt-A-Stream program in the following ways. <ul style="list-style-type: none"> Link on our Phase II website. Materials distributed at front counter. Materials distributed during stormwater events and workshops. Please refer to #71 and Attachment S for more details on the Adopt-a-stream program. The LCDC has promoted the MDEQ Cooperative Lakes Management Program (CLMP) in the following ways: <ul style="list-style-type: none"> Materials distributed at front counter. Materials distributed during stormwater events and workshops. Information placed in Lake Newsletters, which can be found in Attachment J.

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					volunteer event opportunities in the LCDC lake newsletters and on their storm water website.			
82	Utilization of Watershed Signage	1.5, 1.9, 2.5, 3.4	1.e, 4.d, 5.d	PEP	<ul style="list-style-type: none"> The LCDC will work in coordination with the Livingston County Road Commission (LCRC) to install watershed signage in order to increase awareness of the watershed and the water resources located there. 	Install signage by Year 3 of the permit cycle.	<ul style="list-style-type: none"> Number and location of watershed signage erected. 	<ul style="list-style-type: none"> This past spring, the Livingston County Phase II communities ordered 142 Watershed/creek crossing signs. As of October 11, 94 signs had been installed. Attachment M shows details of the signs locations. On the bottom of the watershed signs is our website livingstonwater.org. Around the time most of the signs were installed, June, our website hits doubled. <ul style="list-style-type: none"> March: 745 April: 738 May: 938 June: 1311 July: 1036 August: 679 September: 459 October(through the 23rd): 343
83	Watershed Management Short Course	1.6, 2.4, 3.3, 4.2, 6.1	1, 4.c, 5.d, 9.b	PEP	<ul style="list-style-type: none"> The LCDC will assist in development, financial support, and promotion of a "Watershed Management Short Course" using resources and guidance provided by MSU Extension. 	Plan and conduct class in year 1.	<ul style="list-style-type: none"> Number of participants. Compiled results of survey presented at end of the course. Tracking of class participants' involvement in implementing watershed management initiatives. 	<ul style="list-style-type: none"> The LCDC participated in this event in 2005. The Watershed Management Short Course was not offered in 2007.
84	Storm Drain Labeling and Door Hangers	1.1, 1.2, 1.4, 1.6, 1.9	1.b, 1.c, 1.d, 1.e	PEP	<ul style="list-style-type: none"> The LCDC will utilize volunteers to assist in affixing labels to storm drains with the message "Don't Pollute – Flows to Waterways" along streets where storm 	Start in Year 1; on-going throughout permit cycle.	<ul style="list-style-type: none"> Number and location of storm drains labeled. Number of flyers distributed. Number of volunteers to help with efforts. Message indicated on storm drain markers. 	<ul style="list-style-type: none"> The LCDC has ordered 1,000 storm drain markers with messages such as "No dumping - Drains to wetlands", "No dumping - Drains to streams", "No dumping - Drains to lakes", "Don't pollute - Flows to waterways", and "Only rain - Down the storm drain".

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					<p>drains are located.</p> <ul style="list-style-type: none"> Flyers will be distributed to residential units explaining the connection of storm drains to local waterways and the impacts of nonpoint source pollutants reaching waterways through runoff collected in storm drains. 			<ul style="list-style-type: none"> This October Becky Simpson trained 3 Boy Scout troops to label storm drains. One troop will label 107 drains in the Village of Fowlerville, one troop will label 107 drains in Hartland/Brighton Township and the third troop is labeling 156 drains in Brighton Township. Maps of the storm drain locations can be found in Attachment N.
85	Implement and Promote a County-wide Complaint Tracking and Response System	1.1, 1.2, 1.4, 1.6, 1.9	1.b, 1.c, 1.d, 1.e	PEP	<ul style="list-style-type: none"> The LCDC currently has a link on their website to report illicit discharges associated with soil erosion and sedimentation at construction sites, as well as other illicit discharges such as dumping or failing OSDS. Promotion of the "illicit discharge reporting hotline" will occur through newsletters, cable TV, and the LCDC website. 	Complete in Year 2; on-going promotion throughout permit cycle.	<ul style="list-style-type: none"> Results of tracking and response system (number of reported incidents and follow-up activities). Reduction in illegal dumping incidents. Report on promotion efforts of complaint system. 	<ul style="list-style-type: none"> Our office did come across a suspicious discharge when conducting a soil erosion inspection. Pictures were taken and an e-mail was sent to the DEQ. This e-mail along with correspondence from the DEQ can be found in Attachment O. The LCDC has an online complaint system for reporting illicit discharges, soil erosion and drainage issues online at http://co.livingston.mi.us/drain/complaint1.htm. Our tracking system for complaints was installed in September. Over the past month our office has received 49 complaints, most of which were related to soil erosion. These complaints were sent to the soil erosion inspectors, with inspection and follow-up documented in the computer system. The LCDPH has received 21 OSDS complaints during the last reporting period. These complaints are given to the sanitarian and investigated.
86	Promote Soil	1.2, 1.6, 2.2, 2.4,	1-2	PEP	<ul style="list-style-type: none"> The LCDC will work with the MSU-Extension 	Begin in Year 1;	<ul style="list-style-type: none"> Number of promotional flyers distributed on how and why to 	<ul style="list-style-type: none"> There was no soil testing promotions done

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	Testing				<p>office and HRWC to encourage property owners to perform soil testing to avoid unnecessary fertilizer applications.</p> <ul style="list-style-type: none"> Literature will be disseminated through flyers, advertisements, at public events, etc. 	on-going throughout permit cycle.	<p>have soil tested available to the public at retail stores that sell fertilizers.</p> <ul style="list-style-type: none"> Locations/events where flyers were distributed. Number of local newspaper advertisements that encourage soil testing. Number of coupons redeemed for low to no-phosphorus fertilizers. 	this year.
87	Riparian Land Management Brochures	1, 2, 3	1.b, 1.e, 2.c, 2.d, 3.b, 4.c, 4.d, 5.d, 5.f, 5.g, 9.b	PEP	<ul style="list-style-type: none"> The brochure will promote riparian BMPs with an emphasis on landscaping with native plants, buffer zones, and minimizing impervious surfaces to facilitate on-site water retention/infiltration to riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers. The brochures will be distributed by realtors, nursery/garden retail businesses, and will be available at township offices and distributed by government officials and employees who work with riparian landowners. 	Brochure available in Year 3.	<ul style="list-style-type: none"> Number of brochures distributed and messages conveyed. 	<ul style="list-style-type: none"> The LCDC worked with the Huron River Watershed Council to create a Riparian brochure. This past summer we printed 1,000 of the brochures. The brochure gives details on BMPs relating to: <ul style="list-style-type: none"> Composting Dog poop Vegetative set backs Toxics Water softeners Septic Fertilizer Boats <p>A copy of the brochure can be found in Attachment P. 20 brochures were given to each Phase II community as well as distributed at the front desk.</p>
88	Support Wellhead	6.1, 6.2		PEP	<ul style="list-style-type: none"> Provide link to program on Livingston County 	By 2007	<ul style="list-style-type: none"> Report on number of website hits 	<ul style="list-style-type: none"> A link to the wellhead protection program was placed on our Phase II website. From

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	Protection Program				Drain Commissioner website <ul style="list-style-type: none"> • Maintain signage in protection area • Distribute literature on wellhead protection 		<ul style="list-style-type: none"> • Report on literature distributed • Report on signage locations 	March 1, 2007 to October 23, 2007 our website received 6,249 hits. <ul style="list-style-type: none"> • Wellhead protection brochures were also available at our front desk. 10 brochures were distributed during this reporting period. • View Attachment Q for a map of the wellhead protection areas in Livingston County as well as sign locations in Marion township.
89	Support Household Hazardous Waste Disposal Programs	1.6, 2.4, 6.1	1	PEP; IDEP; PPGH	<ul style="list-style-type: none"> • Advertisement of program • Information on Livingston County Drain Commissioner website 	Ongoing	<ul style="list-style-type: none"> • Track advertisement of program • Track number of website hits 	<ul style="list-style-type: none"> • The LCDC through our Solid Waste program offered 3 household hazardous waste collection days in 2007. The dates were: May 19, August 4, and October 20. <ul style="list-style-type: none"> ○ 6 LCDC staff has their 24 hour Hazardous materials training and continues their education with 8 hour refreshers every year. • The HHW collection days are advertised at our LCDC front desk, flyers that are up in township, village and city halls, newspaper and radio PSAs, and on our website. • The LCDC waste reduction guide is available at co.livingston.mi.us/solidwaste. The waste reduction guide was updated this past spring and 4,000 were printed. • The LCDC through our solid waste program offered "Solid waste challenge grants" in 2007. These grants are offered to local units of government to assist with costs associated with spring cleanup programs and long-term waste reduction programs. 11 local units of government that applied were granted monies totaling approximately \$20,000. • The LCDC solid waste website was published in the May 2007 Thompson Lake, Tyrone Lake and Cedar Lake Newsletters.

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								<ul style="list-style-type: none"> A link to the LCDC's Solid Waste Management Department and the available dates, times, and locations for Livingston County residents to drop off qualifying household hazardous waste was included in the LCDC Phase II website. The LCDC Solid Waste website has received 13,662 hits from November 1, 2006 to October 1, 2007. The LCDC's Solid Waste Program HHW collection events services approximately 450 residents. This effort saved an estimated 19,732 pounds of toxic substances from going to the landfills. Please see Attachment T for breakdown of collected items and quantities The LCDC Solid Waste Program implemented a County wide household battery recycling program. This has resulted in an increase of batteries collected from 9,000 pounds in 2005 to 17,425 pounds in 2007
See #11	Facilitate Generally Accepted Agricultural Management Practices (GAAMPs) / Provide Information and Education to Farmers	1.1-1.4, 1.6, 1.7, 2.1-2.4, 3.1, 3.3, 6.3	1-6	PEP; IDEP; PPGH	See Agricultural Runoff Control Above	Wish List		WISH LIST
90	Reduce Fertilizer, Pesticide and	1.4, 1.6, 2.4, 6.1, 6.2		PEP; PPGH (Part 1.B.2.a.1.b)	<ul style="list-style-type: none"> Distribute literature on how to reduce usage and the water quality benefits 	Ongoing	<ul style="list-style-type: none"> Track literature distributed Track number of website hits Public surveys 	<ul style="list-style-type: none"> The LCDC helped promote the reduction of fertilizer, pesticide and herbicides by distributing the following literature:

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	Herbicide Usage			.5)	<ul style="list-style-type: none"> Place information on Livingston County Drain Commissioner website 			<ul style="list-style-type: none"> 112 SEMCOG - Choose earth-friendly landscaping brochures. 112 SEMCOG - Fertilize sparingly and carefully brochures. 9 HRWC Lawn & Garden brochures. 10 CES Landscaping for Water Quality. 100 Riparian Living brochures The LCDC Also helped promote the following programs: <ul style="list-style-type: none"> MSU-Extension Shoreline Protection Workshop on April 17th. SOCWA residential rain gardens workshop on August 1, 2007. The LCDC Phase II website has information on this topic.
91	Develop and Distribute Outreach Materials on Low-Impact Design	1.1-1.6, 2.1, 2.2, 3.1-3.3, 4.1-4.3, 5.1, 5.2	1, 6, 9-10	PEP; P-CRCP	<ul style="list-style-type: none"> Distribute literature on LID Place information on Livingston County Drain Commissioner website 	By 2010	<ul style="list-style-type: none"> Track literature distributed Track number of website hits 	<ul style="list-style-type: none"> By 2010
92	Develop and Distribute Outreach Materials on Natural Stormwater Management/ Provide Watershed Education to Residents	1.1-1.4, 1.6, 2.1, 2.2, 2.4, 3.1, 3.3, 5.2, 5.3	1-8, 10	PEP; PPGH	<ul style="list-style-type: none"> Develop and distribute materials regarding watershed management 	Ongoing	<ul style="list-style-type: none"> Track number and types of materials distributed Public surveys 	<ul style="list-style-type: none"> Please refer to # 80 for actions taken.
93	Support Wild Corner	1.1-1.4, 1.6, 2.1, 2.2, 2.4, 3.1,	1-5	PEP; PIPP	<ul style="list-style-type: none"> Advertisement of Wild Corner Program 	Ongoing	<ul style="list-style-type: none"> Track advertisement activity Track number of booklets 	<ul style="list-style-type: none"> Please refer to #90 for actions taken.

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	Program/Provide Information and Education Program to Homeowners on Yard and Lawn Care, and Native Landscapes	5.1, 5.2			<ul style="list-style-type: none"> Distribution of Landscaping for Water Quality Booklet 		<ul style="list-style-type: none"> distributed Public Surveys 	
94	Provide Trash Management Information and Education to Public		1, 7	PEP; IDEP; PPGH	<ul style="list-style-type: none"> Distribute literature on trash management Place information on Livingston County Drain Commissioner website 	Ongoing	<ul style="list-style-type: none"> Track literature distributed Track number of website hits Track number of school presentations 	<ul style="list-style-type: none"> Brochures regarding the following topics are available at the LCDC front counter (All flyers are in Attachment 12 in the 2006 annual report): <ul style="list-style-type: none"> Step-by-step guide to disposing household cleaning products. Why burning household waste is a source of air pollution. HHW Collection Days (Please refer to 89 for more actions taken towards HHW) Disposal of sharps Home composting Grass cycling Recycle Livingston Recycling in Michigan Livingston Waste reduction guide More information on trash disposal can be found on the LCDC Solid Waste Website, http://co.livingston.mi.us/SolidWaste/. Please see #80 for details on school presentations.
95	Provide Information and Education Program to		1-2	PEP; IDEP; PPGH	<ul style="list-style-type: none"> Distribute literature on Pet Waste Disposal Place information on Livingston County Drain 	Ongoing	<ul style="list-style-type: none"> Track literature distributed Track number of website hits 	<ul style="list-style-type: none"> 112 SEMCOG Clean up after your pet brochures were distributed at the LCDC front counter and at events throughout the year.

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	Homeowners on Proper Pet Waste Management				Commissioner website			<ul style="list-style-type: none"> 100 Riparian Living brochures were disbursed, which describes proper disposal. This brochure can be found in Attachment P. Information regarding Pet waste is available on our LCDC Phase II website. SEMCOG's "Clean up after your Pet" poster was on the wall in front of the LCDC front counter the whole year. Please see #80 for details on school presentations.
96	Provide Recreational Vehicle (RV) Waste Disposal Education		1-2, 6-7	PEP; IDEP; PPGH	<ul style="list-style-type: none"> Distribute literature on RV Waste Disposal Place information on Livingston County Drain Commissioner website 	By 2007	<ul style="list-style-type: none"> Track literature distributed Track number of website hits 	<ul style="list-style-type: none"> Information on RV waste disposal is available on our LCDC Phase II website.
97	Yard Waste Collection and/or Recycling		1-2	PEP; IDEP; PPGH (Part I.B.2.a.1.b.5)	<ul style="list-style-type: none"> Promote the LCDC's Solid Waste Program via literature or website 	Ongoing	<ul style="list-style-type: none"> Track literature distributed Track number of website hits Track number of school presentations 	<ul style="list-style-type: none"> Please view #89 and #94 for actions taken.
ILLICIT DISCHARGE ELIMINATION PLAN (IDEP) – APPROVED ACTIVITIES								
98	Review existing legal authority to implement the IDEP.			IDEP	<ul style="list-style-type: none"> LCDC will conduct a thorough review of its existing legal authority to find, track and eliminate illicit connections. 	Review complete in 1 st year.	<ul style="list-style-type: none"> Documentation of review and written recommendations 	<ul style="list-style-type: none"> It has been determined that the LCDC has legal authority to implement the IDEP for drains established under the jurisdiction of the Drain Commissioner through Act 40 of 1956, which is written out in chapter 18 of the Drain Code. For private drains, which are not under the jurisdiction of the Drain Commissioner, there is no statutory authority to implement IDEP activities. The MDEQ has exclusive jurisdiction over private drains.
99	Develop			IDEP	<ul style="list-style-type: none"> If needed, the Drain 	Adoption	<ul style="list-style-type: none"> Documentation of adoption of 	<ul style="list-style-type: none"> Not needed for county drains since we have

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	adequate legal authority, if necessary.				Code will be modified to allow the LCDC to implement the IDEP.	complete in 4 th year	amendments	<p>authority.</p> <ul style="list-style-type: none"> Private drains would have to be petitioned to become public drains in order to give the Drain Commissioner jurisdiction for IDEP implementation.
100	Develop a complaint receipt and response system.	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP	<ul style="list-style-type: none"> The LCDC will work with the LCDPH to develop a County-wide system to receive and track complaints regarding storm water, construction site and OSDS issues in the County. The LCDC will advertise the complain system telephone number and e-mail address through posters, mailings, web sites, etc. 	Complete in 1 st year.	<ul style="list-style-type: none"> Documentation of complaint system telephone number/web link. # of complaints received and action taken. 	<ul style="list-style-type: none"> The LCDC has an online complaint system for reporting illicit discharges, soil erosion and drainage issues online at http://co.livingston.mi.us/drain/complaint1.htm. <ul style="list-style-type: none"> Our tracking system for complaints was installed in September. Over the past month our office has received 49 complaints, most of which were related to soil erosion. These complaints were sent to the soil erosion inspectors and taken care of that same day. The LCDPH has received 21 OSDS complaints during the last reporting period. These complaints are given to the sanitarian and investigated.
101	Review existing water quality data for drains and water bodies in the County.			IDEP	<ul style="list-style-type: none"> Available water quality data will be reviewed to aid in prioritizing outfall inspection priority actions and tracking progress for the IDEP. 	Complete in 1 st year.	<ul style="list-style-type: none"> Documentation of review—summary of known information. 	<ul style="list-style-type: none"> The water quality data for drains and waterbodies in the HCOL can be found in chapter 3 in the HCOL WMP. The water quality data for drains and waterbodies in the USR can be found in chapters 1 and 4 in the USR WMP.
102	Develop a priority schedule for inspection of the LCDC	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> The LCDC will use the date review (Task 1.4), knowledge of problem areas, existing work/inspection schedule, location of urbanized areas and 	Complete prioritization in 1 st year.	<ul style="list-style-type: none"> A written inspection schedule 	<ul style="list-style-type: none"> The LCDC prioritized all of the outfall inspections into a 5-year calendar. This calendar was included in the 2005 annual report.

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	drains and outfalls.				other criteria to prioritize the inspection of the LCDC drains and outfalls.			
103	Visual dry-weather inspection of storm water outfalls at County-owned facilities/of fices, follow-up investigation and correction of any problems.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Perform dry-weather screening of known point source stormwater discharges at LCDC-owned outfalls. 	Complete inspections and corrections in 2 nd year; repeat inspections every 5 years (or other appropriate schedule approved by MDEQ) on point source outfalls.	<ul style="list-style-type: none"> # of outfalls inspected. Copies of inspection records. Summary of findings. # of illicit detected. # of illicit corrected. 	<ul style="list-style-type: none"> The LCDC staff has inspected 428 outfalls so far this year. Copies of the inspection reports are at the Drain Office. <ul style="list-style-type: none"> There were no illicit detected.
104	Investigate the feasibility of coordinating the drainage system and outfall inspection efforts of the other agencies and the local communiti	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> The LCDC will meet with the local communities and other appropriate agencies to attempt to coordinate drain and outfall inspections in an effort to eliminate duplication, reduce costs and provide consistency. 	Complete in 1 st year.	<ul style="list-style-type: none"> Meeting minutes, conclusions and recommendations 	<ul style="list-style-type: none"> This was completed and reported in the 2005 annual report.

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	es in the County.							
105	Provide training to appropriate LCDC staff on illicit connections and discharges, including failed OSDS, safety issues and naturally occurring phenomenon. Determine the feasibility of coordinating this training with other agencies (LCDC, LCRC, LCDPH, etc.) and local communities in the County.	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP	<ul style="list-style-type: none"> • Attendance at training sessions offered through Wayne County Department of Environment (WDOE), MDEQ, sponsored by municipality, etc. • Viewing of training videos 	Complete in 1st year.	<ul style="list-style-type: none"> • # of attendees at training sessions. • Copies of training certificates. • Documentation of videos aired and frequency of airing. • Copies of meeting minutes. • Copies of training records. 	<ul style="list-style-type: none"> • All of our staff has been trained by WDOE for illicit connections and discharges. Copies of their training certificates are included in Attachment 19 of the 2006 annual report and also in the 2004 annual report.
106	Perform visual	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> • Based on the schedule developed in Task 1/5, 	Inspect highest	<ul style="list-style-type: none"> • Documentation of findings and observations. 	<ul style="list-style-type: none"> • Visual inspections took place during dry weather on three of the County buildings

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	inspections and dry weather screenings of all LCDC-owned and/or operated storm water conveyance outfalls.				<p>visual inspections will be conducted of each of the LCDC's know outfalls, during dry weather.</p> <ul style="list-style-type: none"> In instances where the outfall is submerged, the outfall is connected to another enclosed sewer, or is otherwise inaccessible, the LCDC will visually inspect the nearest upstream accessible location. 	<p>priority outfalls in 2nd year and complete all evaluations by 5th year; repeat visual inspection every 5 years or other schedule as approved by the MDEQ</p>	<ul style="list-style-type: none"> Number of possible illicit discharges discovered. 	<p>outfalls, the East Complex, Airport and the Ambulance. There were no illicit discharges observed.</p> <ul style="list-style-type: none"> 9 of the County Buildings are located within the City of Howell. The City of Howell will be reporting on these outfalls in their annual report 1 County building is owned by the Livingston County Road Commission. They will be reporting on this outfall in their annual report.
107	Trace illicit discharges and owner notification	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Trace suspected illicit discharges that are found in Task 1.9 to their source using the techniques such as televising, as-built plan review, dye or smoke testing, and sampling. If the illicit is a direct discharge to a County Drain then the LCDC will direct the owner of the source to eliminate the illicit connection/discharge within a specified timeframe and require a notification of correction. If the illicit is 	<p>Begin in 2nd year and continue until all illicit discharges are traced.</p>	<ul style="list-style-type: none"> Number of illicit discharges traced Documentation of notification and elimination. 	<ul style="list-style-type: none"> The LCDC has not found any illicit discharges or connections at this time. If and when the LCDC staff notices an illicit discharge or connection, the illicit will be traced, and if it is not under our jurisdiction, the proper owner or agency with jurisdiction will be notified.

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					discharging to another jurisdiction's storm water conveyance and reaches a LCDC conveyance indirectly, then the LCDC will request the owner of the system to provide updates on their investigation and inform the LCDC when the connection has been eliminated.			
108	Follow-up enforcement of non-correction.	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP	<ul style="list-style-type: none"> The LCDC will follow up with the owner of the source of an illicit discharge that is going directly to an LCDC drain to ensure that the connection/discharge has been eliminated. If the illicit has not been eliminated, the LCDC will use its legal authority to obtain compliance. 	Begin in 2 nd year and continue as needed.	<ul style="list-style-type: none"> Documentation of enforcement actions. Number of illicit found versus number eliminated. 	<ul style="list-style-type: none"> The LCDC has not found any illicit discharges or connections at this time. If and when the LCDC staff notices an illicit discharge or connection that is not under our jurisdiction, the proper owner or agency with jurisdiction will be notified.
109	Investigate the feasibility/benefit of conducting baseline and then follow-up water quality monitoring	1, 2, 3	2, 3, 4, 8	IDEP	<ul style="list-style-type: none"> The LCDC will investigate the feasibility and benefit of conducting baseline and periodic follow-up water quality monitoring in select drains and waterbodies in the County. 	Complete evaluation in 2 nd year if grant money is available and, if found to be of value, will add	<ul style="list-style-type: none"> Documentation of evaluation, conclusions and recommendations. 	<ul style="list-style-type: none"> On December 4, 2006 our office applied for the MiCORP start-up grant for water quality monitoring. This past spring we were told our application was denied (e-mail stating this can be found in Attachment G). We are planning to apply for the full MiCorp grant this coming fall. Our Phase II group met with representatives from MID-MEAC and Friends of the Shiawassee this past summer. We hope to

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	in select drains and waterbodies in the County.					monitoring to implementation schedule		partner with them on future water quality monitoring programs or river day clean-ups. <ul style="list-style-type: none"> On October 15th and 16th Becky Simpson attended the Mi-Corp training as well as annual conference at Higgins Lake.
110	Notify proper jurisdictions of illicit discharges or connections found by LCDC staff.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Any illicit connections/discharges found outside of a LCDC's jurisdiction will be referred to the proper jurisdiction for follow-up actions. 	On-going.	<ul style="list-style-type: none"> Document of referrals. 	<ul style="list-style-type: none"> Our office did come across a suspicious discharge when conducting a soil erosion inspection. Pictures were taken and an e-mail was sent to the DEQ. This e-mail along with correspondence from the DEQ can be found in Attachment O.
111	Encourage the use of the existing OSDS complaint tracking system.	1.2, 1.7, 2.2, 2.3, 6.3	1-2, 8	IDEP	<ul style="list-style-type: none"> The LCDC has no OSDS under its jurisdiction; however, LCDC will ensure that there is a program (see task 1.3) to encourage citizens to utilize the existing LCDPH complaint tracking system. 	Investigate building on the LCDPH complaint, tracking and response system in 1 st year.	<ul style="list-style-type: none"> Documentation of efforts to encourage use and records of use of the system 	<ul style="list-style-type: none"> The LCDC has a link on their Phase II website to the LCDPH on-site sewage disposal system. <ul style="list-style-type: none"> LCDPH received 21 OSDS complaints over the reporting period. The LCDC has an online complaint system for reporting illicit discharges, soil erosion and drainage issues online at: http://co.livingston.mi.us/drain/complaint1.htm <ul style="list-style-type: none"> Our tracking system for complaints was installed in September. Over the past month our office has received 49 complaints, most of which were related to soil erosion. These complaints were sent to the soil erosion inspectors and taken care of that same day.
112	Work with the LCDPH and local communities on	1.2, 1.7, 2.2, 2.3, 3.2, 4.1, 6.2, 6.3	1-2	IDEP; P-CRCP	<ul style="list-style-type: none"> The LCDC will work with the LCDPH and local communities on developing a program whereby OSDS would be periodically inspected 	Begin cooperative investigation in 2 nd year and	<ul style="list-style-type: none"> Documentation of inspection mechanisms/program. 	<ul style="list-style-type: none"> LCDC will support the LCDPH in any way we can to implement a time-of sale ordinance, however this is under the LCDPH jurisdiction.

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	OSDS inspection program.				for failure. Participation in the evaluation of regulatory or other avenues to best accomplish this goal will be sought.	make recommendations in 4 th year.		
113	Evaluate the integrity of the separate sanitary systems at LCDC and County facilities.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Evaluation of sanitary sewer system to ensure seepage into groundwater and surface water is minimized will be made through visual inspection, flow record review, sewer televising and other means, as appropriate. 	Begin evaluation and complete report in 4 th year.	<ul style="list-style-type: none"> Report of findings, corrections and/or recommendations. 	<ul style="list-style-type: none"> 2008
114	Investigate the use of hand-held Global Positioning System (GPS) equipment in mapping and tracking efforts.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> The LCDC may use GPS monitors to more effectively locate, track and record information tabulated during the mapping and inspection of conveyances, outfalls, OSDS and other problem areas. 	Complete in 1 st year.	<ul style="list-style-type: none"> Documentation of the use of GPS. 	<ul style="list-style-type: none"> The LCDC does own a GPS unit and will be utilizing it on all of our County owned outfalls during the 5 year cycle.
115	Update drainage system map based on field observations.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Field verification of the storm water conveyance system and known storm water point source outfalls that are owned and/or operated by the LCDC based on existing map will be completed during initial dry-weather inspection, follow-up inspections, or 	Begin in 2 nd year and complete in the 4 th year; on-going as new outfalls are added to system.	<ul style="list-style-type: none"> Copies of updated maps and outfall tables. 	<ul style="list-style-type: none"> The LCDC is updating the storm water conveyance system maps at the same time as our dry weather screening. The updated maps for the outfalls that were inspected this year (Brighton, Marion, Green Oak and Hamburg) were submitted along with this annual report.

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					as a separate field reconnaissance. The drainage system map and outfall table will be updated based on these observations.			
116	Develop and implement a procedure to identify and record, map, and inspect outfalls from new construction.	1.2, 1.7, 2.2, 2.3, 6.3	2, 8	IDEP	<ul style="list-style-type: none"> Procedure will involve identifying new outfalls and receiving waters of those discharges from new construction through the construction approval process, adding the outfalls to the existing drainage system map, and performing an initial dry weather inspection on the outfall. 	Complete in the 3 rd year.	<ul style="list-style-type: none"> Documentation of outfalls recorded, mapped and inspected from new construction. Process for documentation of new outfalls from new construction. 	<ul style="list-style-type: none"> The LCDC does have a procedure to locate and map any new outfalls from new construction. There were no new drainage districts approved during this reporting period.
See #7	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1.2, 1.7, 2.2, 2.3, 3.2, 4.1, 6.2, 6.3	1-2	IDEP; P-CRCP	See Land Use Planning Above	Wish List		WISH LIST
See #89	Support Household Hazardous Waste Disposal Programs	1.6, 2.4, 6.1	1	IDEP; PPGH	See Public Education and Outreach Above	Ongoing		<ul style="list-style-type: none"> Please refer to # 89 for actions taken.