

Storm Water Pollution Prevention Initiative

Michigan General Permit Number MIG619000

Certificate of Coverage Number MIG610163

Municipality/Agency: Village of Pinckney

Address: 220 S. Howell St.

Contact Person: Amy Felty

Telephone: (734) 878-6206

Title: Village Clerk

Date: May 25, 2006

Signature of Permittee Representative: _____

Acronyms

The following is a list of acronyms and definitions that are useful for understanding the contents of this document:

AC	Advisory Committee
BMP	Best Management Practice
CEA	County Enforcing Agency
CLMP	Cooperative Lakes Monitoring Program
COC	Certificate of Coverage
CRCP	Construction Runoff Control Plan
EPA	United States Environmental Protection Agency
FCA	Fish Consumption Advisory
GLEAS	Great Lakes and Environmental Assessment Section
HCOL	Huron Chain of Lakes
IDEP	Illicit Discharge Elimination Plan
LCDC	Livingston County Drain Commissioner
LCDP	Livingston County Department of Planning
LCDPH	Livingston County Department of Public Health
LCRC	Livingston County Road Commission
LID	Low-Impact Development
LLC	Livingston Land Conservancy
MDEQ	Michigan Department of Environmental Quality
MEP	Maximum Extent Practicable
MHOG	Marion Howell Oceola Genoa Water Authority
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NSP	Nonpoint Source Pollution
OSDS	Onsite Sewage Disposal System
P-CRCP	Post-Construction Runoff Control Plan
PEP	Public Education Plan
PPGH	Pollution Prevention/Good Housekeeping

PPP	Public Participation Plan
SEMCOG	Southeast Michigan Council of Governments
SESC	Soil Erosion and Sedimentation Control
WAG	Watershed Advisory Group
SWPPI	Storm Water Pollution Prevention Initiative
TMDL	Total Maximum Daily Load
USR	Upper-2 Shiawassee River
WMP	Watershed Management Plan
WQS	Water Quality Standards

1. Purpose

The purpose of this Storm Water Pollution Prevention Initiative (SWPPI) is to pull together several compliance documents into a single document that outlines the Village of Pinckney's commitments necessary to reduce the discharge of pollutants associated with stormwater runoff to the maximum extent practicable (MEP). This SWPPI complies with Part I.B.2.a. of the General Permit for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4s) Subject to Watershed Plan Requirements, NPDES Permit Number MIG619000, and the Village of Pinckney's Certificate of Coverage (COC) Number MIG610163, received on December 5, 2003. The following compliance documents have been summarized within this SWPPI:

- The goals and actions from the Huron Chain of Lakes (HCOL) Watershed Management Plan,
- The Village of Pinckney's Illicit Discharge Elimination Plan (IDEP), and
- The Village of Pinckney's Public Education Plan (PEP).

The SWPPI includes those actions expected to be implemented over, and in some cases beyond, the 5-year term of the storm water permit.

This SWPPI contains three (3) summary tables that clearly outline:

- The Watershed Management Plan (WMP) goals associated with the HCOL watershed (found in **Table 1**) and the reasons why a specific goal, if any, does not apply to the Village of Pinckney.
- The methods and parties responsible for measuring long-term progress (found in **Table 2**) in the watershed based on the WMP goals and objectives.
- The specific activities (found in **Table 3**) that the Village of Pinckney has undertaken, or will undertake, with respect to the watershed plan goals and/or actions, the IDEP, the PEP, and other requirements of the storm water permit.

2. Annual Report to Assess Progress

In order to assess our progress, the Village of Pinckney will document the following on an annual basis:

- Changes to the goals and/or actions in the WMP prior to the required permit date for biannual review and revision (before November 1, 2007);
- Progress with respect to specific goals and/or actions;

- Actions taken to eliminate illicit discharges;
- Schedule for elimination of illicit connections identified, but not eliminated;
- Documentation of the public education effort and an evaluation of its effectiveness;
- Any additional actions taken to reduce the discharge of pollutants in storm water;
- Progress on approved activities under the IDEP and PEP; and,
- Modifications to approved IDEP and PEP activities, if applicable.

3. Watershed Plan and SWPPI Revisions

The Village of Pinckney's SWPPI will be reviewed and revised every two years, or as necessary. Revisions to date-specific commitments listed in Table 3 will only be made with approval of the Michigan Department of Environmental Quality (MDEQ). The WMP will be updated every two years (unless a written determination is received by the MDEQ not to revise the WMP). If the WMP is revised, the SWPPI will be revised at the same time and submitted to the MDEQ by November 1, 2007 as opposed to the two-year date of May 1, 2008 for SWPPI revisions alone.

4. Retention of Records

The Village of Pinckney will retain the approved SWPPI and its associated records in-house for a minimum of three years after the termination of the permit. The records will be available upon request by the MDEQ.

At this time, the Village of Pinckney does not plan to conduct any of its own water quality monitoring aside from that planned by MDEQ's Great Lakes and Environmental Assessment Section (GLEAS) staff. However, if in the future the Village of Pinckney conducts water quality monitoring, these records shall include, but not be limited to:

- Information regarding the effectiveness of these activities;
- Records of analyses performed;
- Calibration and maintenance of instrumentation, if used; and,
- Recordings from continuous monitoring instrumentation.

5. Village of Pinckney SWPPI Goals and Priorities

The Village of Pinckney is committed to the prevention of stormwater pollution and reducing possible causes of such pollution. The Village will comply with its Watershed Management Plan to the best of its abilities, given the fact that this is an unfunded mandate imposed upon a community that is approximately one-square-mile in size and has a limited impact on the Huron River Watershed. The Village has limited acreage that has not been developed, but immediate development plans include one subdivision of 55 homes (an open-space development), and a few commercial properties along M-36. The Village of Pinckney currently provides stormwater conveyance to about 75% of the village, and requires appropriate (adherence to Livingston County Drain Commissioner's Office) stormwater detention and discharge for all new subdivisions and commercial development. The system is in good condition with approximately 85% of the existing storm sewer pipe being concrete.

The Village of Pinckney has indicated several WMP goals that we believe are not applicable and/or that we are not planning to include in our short- and long-term planning at this time. These include:

1. Phosphorus reduction ordinance - we will be treating phosphorus in the wastewater discharge by the end of 2006.
5. Private roads ordinance - the village has only one private road at this time and it is less than 500 feet in length
6. Purchase of development rights ordinance - we have no undeveloped property that would be subject to this
25. Provide pet waste bags in parks - we have one park and this has not been an issue there
35. Municipal mapping of wetlands - Livingston county provides this service
43. Provide information to farmers - we have no farmland
44. Provide RV waste disposal - we have no RV facilities
45. Stormwater info on cable - we have no cable channel for the Village
73. Create grassed waterways - we have no waterways that this could apply to
74. Create filter strips - no farmland
75. Riparian buffers - not applicable
78. Pond buffers - limited ponds
81. Restore wetlands - limited wetlands, privately owned
89. Reduce nutrients - no farmland, limited nutrient load

6. SWPPI Development

This SWPPI has been designed and will be implemented in order to reduce the discharge of pollutants in stormwater runoff to the MEP and is consistent with the HCOL WMP developed under Part I.B.1. of the General Permit. This SWPPI includes the actions expected to be implemented over and beyond the term of this permit by the Village of Pinckney and will be implemented upon approval of the District Supervisor of the MDEQ. The components of SWPPI implementation include:

- a. Actions required of the Village of Pinckney in the HCOL WMP as described in Table 3.
- b. Evaluation and implementation of pollution prevention and good housekeeping (PPGH) activities, **which should also include a training and inspection program for staff and contractors employed by the Village of Pinckney in activities that may affect storm water runoff.** The following practices are considered:
 - i. Maintenance activities, maintenance schedules, and inspection procedures for stormwater structural controls to reduce pollutants (including floatables) in discharges from our permitted separate storm water drainage system;
 - ii. Controls for reducing or eliminating the discharges of pollutants from streets, roads, highways, and parking lots;
 - iii. Procedures for the proper disposal of operation and maintenance waste from the permitted separate stormwater drainage system (dredge spoil, accumulated sediments, floatables, and other debris);
 - iv. Ways to ensure that new flood management projects assess the impacts on the water quality of the receiving waters and, whenever possible, examine existing projects for incorporation of additional water quality protection devices or practices; and,
 - v. Implementation of controls to reduce the discharge of pollutants related to application of pesticides, herbicides, and fertilizers applied within our permitted jurisdiction.

- c. Evaluation and implementation of a comprehensive post-construction stormwater runoff control program (P-CRCP) that requires or encourages the use of site appropriate, cost-effective structural and non-structural Best Management Practices (BMPs) to minimize the water quality impacts from areas of new development and significant redevelopment, with the understanding that the goal is to protect the designated uses in the receiving waters from the effects commonly associated with urbanization of the watershed.
- d. The methods of assessing watershed progress in storm water pollution prevention, as summarized for the WMP goals in Table 2.

Table 1. Goals and Objectives of the Huron Chain of Lakes Watershed Management Plan

Huron Chain of Lakes WMP	
Goal 1	Increase public awareness of their role in protecting water resources.
Objective 1.a.	Increase opportunities for public involvement in protection of watershed resources.
Objective 1.b.	Promote education, incentive, and stewardship programs that encourage individual source control of pollutants.
Objective 1.c.	Promote coordination among local units of government in educational program development and implementation.
Objective 1.d	Encourage partnerships between public and private entities in funding and promoting educational messages and activities.
Objective 1.e	Reduce pollution that impacts the watershed by providing practical knowledge to key audiences.

Huron Chain of Lakes WMP	
Goal 2	Reduce nonpoint source nutrient loading.
Objective 2.a.	Support establishment of water quality monitoring programs to measure progress toward phosphorus TMDL goals.
Objective 2.b.	Develop ordinances, strategies, and/or programs for reducing nutrient loading.
Objective 2.c.	Promote implementation of structural and vegetative BMPs at new and existing developed areas.
Objective 2.d.	Meet established TMDL goals for Brighton, Ore, and Strawberry Lakes.

Huron Chain of Lakes WMP	
Goal 3	Reduce flow variability.
Objective 3.a.	Establish current stream flow dynamics through established monitoring strategy.
Objective 3.b.	Increase the use of Low Impact Development (LID) design principles.
Objective 3.c.	Develop ordinances, strategies, and/or programs to manage peak flow rates.
Objective 3.d.	Protect and increase storage in wetlands, floodplains, groundwater, and other pervious areas with infiltration capacity.

Huron Chain of Lakes WMP	
Goal 4	Reduce soil erosion and sedimentation.
Objective 4.a.	Establish baseline data for sediment fines in monitored streams through established monitoring program.
Objective 4.b.	Improve application and enforcement of soil erosion and sedimentation controls (SESC).
Objective 4.c.	Increase education of BMPs among property owners and the building community.
Objective 4.d.	Increase clarity in surface waters.
Goal 5	Protect and mitigate loss of natural features for indigenous riparian and aquatic animals and plants.

Huron Chain of Lakes WMP	
Objective 5.a.	Integrate natural features mapping data into land use planning decisions.
Objective 5.b.	Develop policies that protect natural areas.
Objective 5.c.	Monitor water quality and biota to measure progress.
Objective 5.d.	Educate local decision makers and the public about the benefits of critical habitat protection.
Objective 5.e.	Consider groundwater recharge data when identifying priority natural features protection areas.
Objective 5.f.	Maintain or improve the aquatic community, including meeting TMDL goals for poor macroinvertebrate communities in Horseshoe Lake Drain and Honey Creek.

Huron Chain of Lakes WMP	
Objective 5.g.	Increase areas of natural features, including wetlands, woodlands, riparian buffers, and floodplains.
Goal 6	Protect existing open space and agricultural land.
Objective 6.a.	Identify and prioritize key opportunities for protection of undeveloped lands.
Objective 6.b.	Develop policy and planning tools that address urban sprawl.
Objective 6.c.	Facilitate regional coordination in preserving open space corridors, especially riparian corridors.
Objective 6.d.	Work with land conservancies and other land preservation groups to facilitate use of land protection/conservation tools.

Huron Chain of Lakes WMP	
Goal 7	Protect and enhance recreational opportunities.
Objective 7.a.	Identify and reduce sources of pollution that inhibit recreational activities.
Objective 7.b.	Increase regional coordination of recreational planning efforts.
Objective 7.c.	Research and pursue grant opportunities for recreational planning efforts.
Goal 8	Increase monitoring of water quality, water quantity, and biological indicators.
Objective 8.a.	Develop a monitoring strategy.

Huron Chain of Lakes WMP	
Objective 8.b.	Secure funding and develop partnerships to conduct short-term and long-term monitoring of key indicators.
Objective 8.c.	Implement and maintain Illicit Discharge Elimination Program (IDEP) investigations.
Goal 9	Balance environmental and economic benefits in the subwatershed.
Objective 9.a.	Integrate stormwater management in planning and site plan review process.
Objective 9.b.	Educate land use decision makers and developers on long-term economic benefits of stormwater BMPs, impacts of development on the watershed, and tools for low-impact development.
Objective 9.c.	Increase coordinated planning efforts and implementation among local units of government.

Huron Chain of Lakes WMP	
Goal 10	Attain full plan implementation.
Objective 10.a.	Establish financial and institutional arrangements for WMP fulfillment.
Objective 10.b.	Ensure the long-term viability of the Huron Chain of Lakes Steering Committee to guide watershed-wide planning decisions.
Objective 10.c.	Increase public awareness of progress in WMP implementation.

Table 2 . Goal-Specific Long-Term Assessment of Progress in the Huron Chain of Lakes Watershed

#	HCOL WMP Goals	N/A *	Methods for Evaluating Progress in Watershed	Targets for Evaluation in the Watershed	Responsible Party for Evaluating Progress
1	Increase public awareness of their role in protecting water resources.		A. PEP Implementation B. Stakeholder Surveys C. CLMP/Adopt-A-Stream Assessments	A. Increase in public awareness/stewardship on NSP issues B. Documentation of increased public awareness and stewardship C. Attainment of Water Quality Standard Criteria	A. Village of Pinckney staff B. SEMCOG C. Volunteers/lake residents/MDEQ Staff
2	Reduce nonpoint source nutrient loading.		A. CLMP/Adopt-A-Stream Assessments B. MDEQ-GLEAS Evaluations C. Road/Stream Crossing Surveys (photographic surveys and in-stream sampling) D. MDEQ Review of SWPPI Annual Reports E. IDEP Implementation F. Track BMPs established throughout the Village of Pinckney's jurisdiction	A/C. Attainment of Water Quality Standard Criteria B. Improved habitat, fish and macroinvertebrate ratings C. Increase in aesthetics of resources D. Compliance with Phase II Permit Requirements E. Identification and elimination of illicit discharges F. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney jurisdiction	A. Volunteers/lake residents/MDEQ Staff B. MDEQ GLEAS Staff C/E/F. Village of Pinckney Staff D. MDEQ WB Staff
3	Reduce flow variability.	N/A	A. Road/Stream Crossing Surveys (photographic surveys and in-stream sampling) B. MDEQ-GLEAS Evaluations C. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Documentation of reduced streambank erosion, channel downcutting, and maintained base flow B. Improved habitat ratings C. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A/C. Village of Pinckney staff B. MDEQ GLEAS Staff

#	HCOL WMP Goals	N/A *	Methods for Evaluating Progress in Watershed	Targets for Evaluation in the Watershed	Responsible Party for Evaluating Progress
4	Reduce soil erosion and sedimentation.	N/A	A. Track SESC compliance/violations during inspections B. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Reduced SESC violations/Compliance with SESC plans B. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A. LCDC staff/MDEQ Part 91 staff B. Village of Pinckney staff
5	Protect and mitigate loss of natural features for indigenous riparian and aquatic animals and plants.	N/A	A. Adoption of natural feature protection ordinances B. Habitat evaluations C. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Increase in number and types of ordinances adopted B. Increase in habitat evaluation scores C. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A/C. Village of Pinckney staff B. MDEQ GLEAS staff
6	Protect existing open space and agricultural land.	N/A	A. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A. Village of Pinckney staff
7	Protect and enhance recreational opportunities.		A. Increase in land dedicated for recreation B. MDEQ Review of SWPPI Annual Reports C. Track BMPs established throughout the Village of Pinckney's jurisdiction D. IDEP Implementation	A. Increase in acreage of public land B. Compliance with Phase II Permit Requirements C. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction D. Identification and elimination of illicit discharges	A/C/D. Village of Pinckney staff B. MDEQ WB Staff

#	HCOL WMP Goals	N/A *	Methods for Evaluating Progress in Watershed	Targets for Evaluation in the Watershed	Responsible Party for Evaluating Progress
8	Increase monitoring of water quality, water quantity, and biological indicators.	N/A	A. CLMP/Adopt-A-Stream Assessments B. MDEQ-GLEAS Evaluations C. Road/Stream Crossing Surveys (photographic surveys and in-stream sampling) D. Review of LCDPH Beach monitoring reports	A/C/D. Attainment of Water Quality Standard Criteria B. Improved habitat, fish and macroinvertebrate ratings	A. Volunteers/lake residents/MDEQ Staff B. MDEQ GLEAS staff C/D. Village of Pinckney staff
9	Balance environmental and economic benefits in the subwatershed.	N/A	A. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A. Village of Pinckney staff
10	Attain full plan implementation.		A. WAG/AC Meetings B. MDEQ Review of SWPPI Annual Reports C. Track BMPs established throughout the Village of Pinckney's jurisdiction	A. Maintained and increased attendance of WAG/AC meetings B. Compliance with Phase II Permit Requirements C. Increase in number of structural, vegetative and managerial BMPs throughout the Village of Pinckney's jurisdiction	A/C. Village of Pinckney staff B. MDEQ WB Staff

*Explanation can be found in Section 5.

Table 3. Storm Water Pollution Prevention Initiative Action Table for Village of Pinckney

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Land Use Planning					
1	-	Support Citizen Planner Program		PEP; P-CRCP	- Advertisement of program offered through the MSU-Extension office - Municipal/planning staff attendance of program	Currently Doing	- Mode of advertising used for program - Number of municipal /planning staff to attend program - Description of course topics covered
2	8	Adopt and Implement Wetlands Ordinance	1-5	CRCP; P-CRCP	Development and adoption of ordinance	Currently Doing	Documentation of ordinance adoption
3	17	Adopt and Implement Zoning Ordinances to Support Low-Impact Development Strategies/Minimize Total Impervious Cover in Zoning Ordinance	3, 5	CRCP; P-CRCP	Development and adoption of ordinance	Currently Doing	- Track number of zoning ordinances with measures to minimize impervious cover - Reduction in build-out scenario impervious levels
4	14, 15, 16	Implement Soil Erosion and Sedimentation Control Ordinance/Improve Enforcement of SESC Policies	1-5	CRCP; P-CRCP	LCDC to implement SESC Program/Ordinance through plan reviews	Ordinance last updated on 12/18/00;	- Number of SESC permits issued annually - LCDC to report annually on SESC inspection

					and site inspections and enforcement procedures	Additional updates as needed.	reports including: ○ Violations ○ Corrections ○ Enforcement Procedures • Track installation and maintenance of construction site BMPs 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.
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SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
5	7	Adopt and Implement Post-Construction Stormwater Management Ordinance	1-5	P-CRCP	Development and adoption of ordinance at local or county level	Currently Doing	Documentation of ordinance adoption by Livingston County
6	10	Adopt and Implement Resource Protection Overlay District Standards/Adopt Overlay Zoning for Riparian Corridor	1-2, 4-6	P-CRCP	Development and implementation of new zoning	Wish List	Documentation of new zoning in Master Plan
7	12	Adopt Model Development Standards for Water Quality and Quantity Protection/Incorporate Low-Impact Design Principles into Standards	2-6, 9	CRCP; P-CRCP	Development and adoption of new/updated design standards	Updates made to Design Criteria for Stormwater Management Systems in 2001. Additional updates to be made as necessary.	Documentation of updated design standards by Livingston County 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.
8	9	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1-2	IDEP	- Development and adoption of ordinance - Inspections and corrections of failing OSDS	Currently Support County Wide Ordinance	- Documentation of ordinance adoption - Track number of inspections and correction procedures
9	36	Conduct Natural Features Inventories	5, 6, 8	P-CRCP	Conduct inventories of natural features	Wish List	Documentation of identified natural features and the efforts taken to preserve/protect them

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
10	18	Incorporate High-Quality Natural Features Inventory into Master Plan/Promote Open Space Preservation in Zoning Ordinance and Master Plan	1-7	P-CRCP	Updates to Master Plans and/or Zoning Ordinance to incorporate protection of natural features and open space	Currently Doing	Documentation of updates to zoning ordinance and/or Master Plan
11	22	Incorporate Results of Conservation Planning Analyses into Local Ordinances and Policies	1, 5, 6, 9	P-CRCP	Updates to local ordinances and policies that incorporate conservation planning analysis results	Wish List	Track number of local ordinances and policies incorporating conservation planning
12	34	Identify Areas for Recreational Enhancement/Investigate Opportunities for Recreation Areas	5-7	P-CRCP	- Update Recreation Plan outlining suitable areas for future recreational space - Secure funding for additional recreational spaces through various programs	Currently Doing	- Documentation of updates to Recreation Plan - Documentation of areas designated as recreational areas - Documentation of funding received for land acquired for recreation
13	91	Install Grade Stabilization Structures	2-5	P-CRCP	Work with the local NRCS to encourage the use of grade stabilization structures needed on agricultural lands	Wish List	- Track the number of structures in practice - Track operation and maintenance activities, if possible
14	94	Install and Maintain Sediment Trapping Devices	2-5	P-CRCP	Work with the local NRCS to encourage the use of sediment trapping devices on construction sites	Currently Support County Program	- Track the number of sediment tracking devices in use - Track operation and maintenance activities, if

							possible
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Construction Site Stormwater Runoff Control					
15	17	Adopt and Implement Zoning Ordinances to Support Low-Impact Development Strategies/Minimize Total Impervious Cover in Zoning Ordinance	3, 5	CRCP; P-CRCP	See Land Use Planning Above	Currently doing	Adoption of ordinance
16	8	Adopt and Implement Wetlands and Watercourse Ordinance	1-5	CRCP; P-CRCP	See Land Use Planning Above	Currently doing	Adoption of ordinance
17	14, 15, 16	Implement Soil Erosion and Sedimentation Control Ordinance/Improve Enforcement of SESC Policies	1-5	CRCP; P-CRCP	See Land Use Planning Above	Controlled by Livingston County	Controlled by Livingston County
18	12	Adopt Model Development Standards for Water Quality and Quantity Protection/Incorporate Low-Impact Design Principles into Standards	2-6, 9	CRCP; P-CRCP	See Land Use Planning Above	Long-term	Adopt standards
19	14, 15, 16	Implement and Enforce the Soil Erosion and Sedimentation Control (SESC) Program and Drainage Rules	1-5	CRCP; P-CRCP	- Implementation of SESC Program/Ordinance through inspections and enforcement procedures for violations - Implementation of Drainage Rules through site plan review and approval process	Updates made to Design Criteria for Stormwater Management Systems in 2001. Additional updates to be made as necessary.	- Number of SESC permits issued annually - LCDC to report annually on SESC inspection reports including: - Violations - Corrections - Enforcement Procedures - Track installation and maintenance of construction site BMPs

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Post-Construction Runoff Control					
20	7	Adopt and Implement Post-Construction Stormwater Management Ordinance	1-5	P-CRCP	See Land Use Planning Above	Currently doing	• Adopt ordinance
21	12	Adopt Model Development Standards for Water Quality and Quantity Protection/Incorporate Low-Impact Design Principles into Standards	2-6, 9	CRCP; P-CRCP	See Land Use Planning Above	Long-term	• Adopt standards
22	9	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1-2	IDEP; P-CRCP	See Land Use Planning Above	Currently doing	• Complaint and referral records
23	91	Install Grade Stabilization Structures	2-5	P-CRCP	• Install and maintain grade stabilization structures on municipal-owned properties	Wish List	• Track the number of structures in practice • Track operation and maintenance activities
24	94	Install and Maintain Sediment Trapping Devices	2-5	P-CRCP	• Install and maintain sediment trapping devices on municipal-owned properties	Performed by Livingston County	• Track the number of devices in practice • Track operation and maintenance activities
25	53-62	Implement Illicit Discharge Elimination Plan (IDEP)	1-2, 8	IDEP; P-CRCP; PPGH	See Illicit Discharge Elimination Plan Activities Below	Currently Doing 54, 55, 56, 58, 59, 60 & 61 / Wish List 53 & 57 / 52 Planned for Long Term	• Written recommendations • Documentation & notification • Annual Report • Records of actions • Training Records & Meeting minutes • Updated map & table of outfalls • Document & implement

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
26	14, 15, 16	Implement and Enforce the Soil Erosion and Sedimentation Control (SESC) Program and Drainage Rules	1-5	CRCP; P-CRCP	See Construction Runoff Control Above	Currently support County efforts	Controlled by Livingston County
27	11	Adopt and Implement Low-Impact Development Strategies in Site Planning Process/Enhance Site Plan Review Process	3, 5, 9	P-CRCP	Development of updated requirements to assess during site plan review process as it relates to stormwater management	Currently Doing	- Survey communities to compare pre- and post-site plan review requirements - Documentation of revisions made to site plan review process - Report on number of new developments/redevelopments that implement LID strategies
28	20	Revise Parking Standards for New Development/Redevelopment	3, 5	P-CRCP	Development and adoption of updated standards	Wish List	Documentation of updates to parking standards
29	21	Revise Pond Landscaping Requirements in Stormwater Management Standards	2, 4	P-CRCP	Updates to pond landscaping requirements in Stormwater Management Design Standards	Wish List	- Documentation of updates to standards - Documentation of site plan review process to ensure adequate pond landscaping is used
30	32	Inventory Eroding Streambanks and Implement Streambank Stabilization Measures	2, 4-5, 8	P-CRCP	- Perform an inventory of streambanks to assess extent of existing erosion or erosion-inducing conditions - Implement appropriate	Wish List	- Track the amount of streambanks stabilized - Track the types of BMPs utilized to stabilize the streambank - Evaluate BMP effectiveness over time

					BMPs to stabilize eroding streambanks (to be followed by an assessment and eradication of the problem causing erosion to take place)		- Calculate pollution reduction based on BMP implementation - Track operation and maintenance activities
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
31	33	Inventory Areas Lacking Stormwater Management for Retrofit Opportunities	2-4		- Conduct stormwater management system inventory (i.e. detention basin inventory) - Assess appropriate retrofit opportunities - Implement retrofits to failing stormwater management systems	Wish List	- Documentation of inventory - Documentation of retrofit projects - Evaluation of BMP effectiveness over time
32	86	Install and Maintain Infiltration BMPs	2-3, 5	P-CRCP	- Install infiltration BMPs - Maintain BMPs	Performed by Livingston County	- Track the number and type of BMPs installed - Track operation and maintenance activities - Calculate the estimated amount of pollution reduction based on BMP type
33	90	Install and Maintain Catch Basin Inserts	2, 4-5	P-CRCP	Installation and maintenance of catch basin inserts	Performed by Livingston County	- Track the number and location of inserts used - Track operation and maintenance activities
34	85	Control Soil Erosion/Stabilize Soil on Construction Sites and Road Crossing Embankments	2-5	P-CRCP	- Employ BMPs to minimize soil erosion - Perform SESC	Performed by Livingston County	- Track number and types of BMPs employed - Track pollution

					inspections and follow-up procedures for non-compliance at construction sites		- reduction based on BMPs established - Track inspection and compliance status - Track operation and maintenance activities
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
35	93	Construct and Maintain Media/Sand and Organic Filters	2, 4-5	P-CRCP	Construct and maintain media/sand and organic filters	Wish List	- Track the number and location of filters - Track operation and maintenance activities
36	24	Perform High-Powered Street and Paved Area Sweeping	2, 4	P-CRCP	- Perform sweeping of impervious surfaces - Properly dispose of sediment and debris collected	Wish List	- Track the number of streets/parking lots swept (lineal feet or miles) - Track the amount of debris collected - Report on how the debris is disposed of - Calculate the estimated amount of pollution reduction based on the amount of debris removed (i.e. sediment, metals, salts, etc.)
37	95	Replace Undersized Culverts/Repair Misaligned or Obstructed Culverts	2-5	P-CRCP	- Perform assessments of culverts needing replacement/reconstruction - Perform replacements/construction in accordance with Drainage Standards and SESC Program	Wish List	- Track operation and maintenance activities - Track the number of culverts replaced/repared

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
38	87	Construct and Maintain Infiltration Trenches	2-5	P-CRCP	Construct and perform maintenance on infiltration trenches	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
39	86	Install and Maintain Stormwater Retention/Infiltration Basins and other Infiltration Devices	2-5	P-CRCP	Construct and perform maintenance on stormwater retention/infiltration basin systems (or other applicable infiltration devices)	Performed by Livingston County	- Track operation and maintenance activities - Track the number and location of BMPs constructed
40	77	Install Grassed Swales	2-5	P-CRCP	Install and maintain grassed swales	Livingston County	- Track operation and maintenance activities - Track the number and location of BMPs constructed
41	76, 78	Install Naturalized Detention/Retention Basins	2-5	P-CRCP	Install and maintain naturalized detention/retention basins	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
42	82	Install and Maintain Rain Gardens (Bioinfiltration)	2-5	P-CRCP	Install and maintain rain gardens or other bioinfiltration systems	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
43	88	Install and Maintain Vegetated ("Green") Roofs	1, 3	P-CRCP	Install and maintain green roof systems	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
44	92	Install Pervious Pavements	2-4	P-CRCP	Install and maintain pervious pavement systems	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
45	31	Initiate Hydrologic and Hydraulic Studies	3, 8-9	P-CRCP	Implement studies to better understand watershed conditions and determine appropriate BMPs and BMP locations for implementation for areas with altered hydrology	Livingston County	- Track data generated from studies - Develop rating curves from data - Track projects to restore natural hydrology of watershed area
46	30	Develop and Implement a Coordinated Monitoring Strategy to Measure Water Quality, Water Quantity and Biota	2-5, 8-10	P-CRCP	- 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	- Track development of monitoring strategy - Compile and evaluate monitoring data for compliance with Water Quality Standards as outlined in Appendix A

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
47	86	Construct and Maintain Stormwater Retention/Detention Basins	2-3, 5	P-CRCP	Construct and maintain stormwater retention/detention basins	Livingston County	- Track operation and maintenance activities - Track the number and location of BMPs constructed
48	72	Construct/Maintain Wet Detention Ponds (Constructed Wetlands)	2-5	P-CRCP	Construct and maintain wet detention ponds and/or constructed wetlands	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
49	27	Implement Alternative Drain Practices and Rehabilitation that Improves and Protects Stream and Riparian Habitats	2-5, 9	P-CRCP	Utilize BMPs that restore previously maintained “drains” to a more natural state in order to enhance/protect riparian corridors and instream habitats	Livingston County	- Track the number and types of BMPs established along stream/riparian corridors - Track operation and maintenance activities
50	2	Encourage Native Landscaping in New Developments and Redevelopments/ Adopt Native Landscaping Ordinance	1-5	P-CRCP; PPGH (Part I.B.2.a.1.b.5)	- Incorporate desired native landscaping specifications and design standards into stormwater management design manual - Development and adoption of ordinance	Currently Doing	- Documentation of design standard updates - Documentation of ordinance adoption - Track maintenance of native landscaping areas

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
51	84	Utilize In-Stream Habitat Restoration Techniques	5-7	P-CRCP	- Assess appropriate use of in-stream habitat restoration techniques for stream/channels with lack of in-stream habitat - Perform maintenance on BMPs	Wish List	- Track operation and maintenance activities - Track the number and location of BMPs constructed
52	23	Minimize/Reduce Directly Connected Impervious Areas (e.g. downspouts)	1, 3-5	P-CRCP	- Disconnect/reduce directly connected impervious surface of municipal-owned facilities - Encourage LID strategies in new developments and redevelopments	Wish List	Track the number of BMPs implemented to reduce directly connected impervious surfaces
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Pollution Prevention/Good Housekeeping					
53	See 23-29, 72-96	Perform Maintenance Activities, Develop Maintenance Schedules and Implement Inspection Procedures for Village of Pinckney-owned Stormwater Structural Controls		PPGH (Part I.B.2.a.1.b.1)	Inspections and needed maintenance will be performed on a determined schedule for each structural BMP owned by the Village of Pinckney	23, 24, 29, 72,76, 82, 83, 84, 87, 88, 91, 92, 93 & 95 Wish List	Inspection and maintenance procedures and schedules are detailed for each structural BMP listed in the Post-Construction BMPs Section Above

						• 25, 73, 74, 75, 78, 79, 80, 81, 89 & 96 N/A • 26 Currently Doing • 27, 77, 85, 86, 90 & 94 Liv. County • 28 Short Term	
54	See 24, 29, 96	Implement Controls for Reducing or Eliminating the Discharges of Water and Pollutants from Streets, Roads, and Highways; Parking Lots; Maintenance Garages; and Storage Yards Owned by the Village of Pinckney		PPGH (Part I.B.2.a.1.b.2)	• Appropriate BMPs will be installed, performed or maintained to ensure the discharge of pollutants to surface waters to the MEP	See Above	• Each BMP installed and maintained by the Village of Pinckney is outlined in the Post-Construction BMPs Section Above and the PPGH BMP descriptions below
55	See 24, 90	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)	• Solid and liquid waste cleaned from Village of Pinckney-owned BMPs will be appropriately handled and disposed of	See Above	• For each BMP maintained by the Village of Pinckney as outlined, the method of disposal for solid and liquid waste will be reported in each SWPPI Annual Report
					•		•

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
56	See 11, 12	Implement Procedures to Ensure that Flood Management Control Projects Assess Impacts on Water Quality of Receiving Waters		PPGH (Part I.B.2.a.1.b.4)	- Site Plan Reviews are completed by LCDC staff according to the Drainage Rules set forth by the LCDC's office and are assessed for impacts to receiving waters for water quality control and flood management - Additional ordinances may be adopted by local communities to require more strict requirements on the use of particular BMPs in the site design process and will be documented as adopted	Updates made to Design Criteria for Stormwater Management Systems in 2001. Additional updates to be made as necessary.	- Documentation of updated design standards as they are made - Documentation of ordinances adopted 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.
57	26	Increase the Amount of Refuse Containers and Review their Distribution	1, 5	IDEP; PPGH	Purchase and distribution of refuse containers	Currently Doing	- Track the number of containers purchased - Track the location of use of receptacles
58	53-62	Implement Illicit Discharge Elimination Plan (IDEP)	1-2, 8	IDEP; P-CRCP; PPGH	See Illicit Discharge Elimination Plan Activities Below	See Above	
59	90	Install and Maintain Catch Basin Inserts	2, 4-5	P-CRCP; PPGH	See Post-Construction Runoff Control Above	Livingston County	- Track operation and maintenance activities - Track the number and location of BMPs constructed - Provide documentation of inspection procedures

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
60	24	Perform High-Powered Street and Paved Area Sweeping	2, 4	P-CRCP; PPGH (Part I.B.2.a.1.b.2)	See Post-Construction Runoff Control Above - Remove sediments from curb gutters - Perform street-sweeping prior to spring snow-melt to reduce pollutant loads from traction aids applied over the winter	Wish List	- Track operation and maintenance activities - Track the number and location of impervious surfaces swept - Provide documentation of inspection procedures - Track debris removed and how disposed of
61	29	Reduce the Use of Conventional Road Deicers	1, 5, 9	PPGH (Part I.B.2.a.1.b.2)	- Investigate the use of alternatives to conventional de-icers - Calibrate salt-spreading machinery	Wish List	- Track the amount of salt or alternative de-icer usage - Track storage facility operation and maintenance
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Watershed Plan Implementation					
62	64	Implement Financial Solutions/ Conduct Work Sessions to Prioritize Specific Projects for Funding, Establish Estimated Costs, and Identify Funding Mechanisms	9-10		Secure funding for watershed plan implementation projects	Short Term	- Track prioritization for project funding, project cost estimates, and funding mechanisms - Track implementation of various funding mechanisms and

							associated projects
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
63	68	Seek Alternative Funding Sources	1-10		- Secure funding for watershed projects - Allocate staff to research and present funding opportunities	Wish List	- Track number of proposals submitted - Track dollars matched and raised - Track projects associated with funding sources
64	69	Secure Funding and Develop Partnerships to Conduct Monitoring	1, 8-10		Establish a monitoring program or partner with an existing monitoring program	Wish List	- Implementation of monitoring program - Track results of monitoring program
65	63	Implement Institutional Framework for Watershed-Wide Actions/Establish a Long-Term Committee of Community/Entity Representatives to Promote Implementation of the WMP	1-10	ALL	- WAG/AC Meetings - WMP/SWPPI Modifications based on results of implementation	Ongoing; meetings to occur on a monthly basis	- Track meeting attendance - Updates reflected in WMP and SWPPI - All actions and results of WMP implementation to be documented in SWPPI annual reports
66	65	Ensure Consistency of Ordinances Among the HCOL communities	1-10		Adoption of similar ordinances throughout the various jurisdictions in the watershed to ensure consistent protection and improvement of water and natural resources	Wish List	Track the types of ordinances adopted for each watershed community
67	67	Create Partnerships with Institutions, Schools, and the Private Sector to Promote a Collaborative Effort in	ALL	ALL	Create partnerships with SEMCOG, schools, local conservation groups,	Wish List	- Track the number and types of partnerships created - Track the outcomes of

		Watershed Management			- watershed groups, etc. to implement the WMP - Implement specific watershed projects		supported projects through those partnerships
		Total Maximum Daily Loads (TMDLs)					
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
68	34	Identify Areas for Recreational Enhancement/Investigate Opportunities for Recreation Areas	5-7	P-CRCP	See Land Use Planning Above	Currently Doing	Increase in recreation areas owned by the Village of Pinckney
		Public Education Plan (PEP)-Approved Activities					
69	41	Support Soil Testing Program	1-2	PEP	See PEP Activities Above	Begin in year 1; on-going each spring	- Number of flyers passed out - Coupon redemption, if applicable - Change in number of soil test performed
70	50	Support Household Hazardous Waste Disposal Programs	1	PEP; IDEP; PPGH	- Advertisement of program - Information on Village of Pinckney website	Wish list	- Track advertisement of program - Track number of website hits
71	37	Provide Education on the Identification of Failing OSDS/OSDS Maintenance	1-2	PEP; IDEP; PPGH	- Provide information on proper operation and maintenance - How to detect failure and where to report it (if necessary)	Long-term	- Track types and amount of educational materials produced/distributed - Track number of website hits
72	29	Minimize Use of Salt and Deicing Chemicals	1, 5, 9	PEP; PPGH	Distribute literature on how to reduce usage and the water quality benefits	Wish list	- Track literature distributed - Track number of website hits

					Place information on Village of Pinckney website		- Public surveys - Track salt usage reductions by Village of Pinckney
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
73	48	Develop and Distribute Outreach Materials on Low-Impact Design	1, 6, 9-10	PEP; P-CRCP	- Distribute literature on LID - Place information on Village of Pinckney website	Wish list	- Track literature distributed - Track number of website hits
74	38	Develop and Distribute Outreach Materials on Natural Stormwater Management/ Provide Watershed Education to Residents	1-8, 10	PEP; PPGH	Develop and distribute materials regarding watershed management	Currently doing	- Track number and types of materials distributed - Public surveys
75	40	Support Wild Corner Program/Provide Information and Education Program to Homeowners on Yard and Lawn Care, and Native Landscapes	1-5	PEP; PIPP	- Advertisement of Wild Corner Program - Distribution of Landscaping for Water Quality Booklet	Short-term	- Track advertisement activity - Track number of booklets distributed - Public Surveys
76	28	Perform storm drain/catch basin marking	1-3, 5	PEP; PIPP	See PEP Activities Above	Short-term	
77	39	Provide Trash Management Information and Education to Public	1, 7	PEP; IDEP; PPGH	- Distribute literature on trash management - Place information of Village of Pinckney website	Currently doing	- Track literature distributed - Track number of website hits - Track number of school presentations
78	42	Provide Information and Education Program to Homeowners on Proper Pet Waste Management	1-2	PEP; IDEP; PPGH	- Distribute literature on Pet Waste Disposal - Place information on Village of Pinckney	Short-term	- Track literature distributed - Track number of website hits

					website		
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
79	46	Watershed-Related Articles in Community Newsletter	1, 10	PEP	See PEP Activities Above	Short-term	- Frequency of articles published - Number of newsletters distributed
80	47	Watershed-Related News and Information and Education Materials on Village of Pinckney Website	1, 10	PEP	See PEP Activities Above	Short-term	Number of hits to web page
81	49	Promote Reporting System for Illicit Discharges	1-2	PEP; IDEP; PPGH	See PEP Activities Above	Short-term	Documented use of system
82	51	Yard Waste Collection and/or Recycling	1-2	PEP; IDEP; PPGH (Part I.B.2.a.1.b.5)	Promote the LCDC's Solid Waste Program via literature or website	Currently doing	- Track literature distributed - Track number of website hits - Track number of school presentations
83	52	Watershed and River Crossing Signage	1	PEP	See PEP Activities Above	Short-term	Number of signs posted
SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
		Illicit Discharge Elimination Plan (IDEP)-Approved Activities					
84	9	Support County-wide Onsite Septic Disposal System (OSDS) Ordinance	1-2	IDEP; P-CRCP	See Land Use Planning Above	Currently doing	Complaints and referral records

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
85	50	Support Household Hazardous Waste Disposal Programs	1	IDEP; PPGH	See Public Education and Outreach Above	Wish list	Number of or amount of hazardous waste collected
86	37	Provide Education on the Identification of Failing OSDS	1-2	PEP; IDEP; PPGH	See Public Education and Outreach Above	Long-term	Type and value of information
87	IDEP 3.2	Implement Illicit Discharge Elimination Plan (IDEP)		IDEP	Establish a tracking system	Begin in 1 st	Annual report
88	53 IDEP 1.1	Conduct Outfall Screening Program	2, 8	IDEP	Perform visual inspection in dry weather	Begin in 2 nd , complete in 4 th	- Track screening results - Written recommendations
89	54 IDEP 1.2	Perform Smoke/Dye Testing	2, 8	IDEP	Trace illicit connections	Begin in 2 nd , ongoing	- Track testing results - Documentation and notification
90	55	Develop a Reporting System/Follow-Up Plan for Illicit Connections	1-2, 8	IDEP		Currently doing	- Track follow-up results - Track reporting complaints
91	56 IDEP 1.2	Trace Illicit Connections	2, 8	IDEP	Trace illicit connections	Begin in 2 nd , ongoing	- Track number of connections found - Track number of corrections
92	57 IDEP 1.3	Enforcement for Non-Correction of Illicit Discharges	1-2, 8	IDEP	Enforcement for non-correction	Begin 2 nd , ongoing	Track enforcement actions for non-correction
93	58 IDEP 1.5	Staff Training to Identify Illicit Discharges	1-2, 8	IDEP	Provide training on illicit connection in failed OSDS	Complete in 2 nd	Track training actions
94	59 IDEP 2.1	Minimize Seepage from Sanitary Sewers	2, 8	IDEP	Provide training to Village staff on illicit connection in failed OSDS	Complete in 2 nd	- Track operation and maintenance on sanitary sewer system - Report on corrections of seepage problems

SWPPI Activity No.	HCOL BMP No.	BMP Activity	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)
95	60 IDEP 2.1	Minimize Seepage from OSDS	2, 8	IDEP	Provide training to Village staff on illicit connection in failed OSDS	Complete in 2 nd	- Track operation and maintenance on OSDS - Report on corrections of seepage problems
96	61 IDEP 4.1	Update Outfall and/or Drainage Map	2, 8	IDEP	Update drainage map based on field observations	Begin in 2 nd , complete in 4 th	Copy of updated map and table of outfalls
97	62 IDEP 3.3	Develop and Implement Method to Identify and Record Outfalls from New Construction	2, 8	IDEP	Develop and implement a procedure to identify records	Complete in 3 rd	Track number of new outfalls created from new construction

Appendix A

Standards for Important Water Quality Parameters*

Parameter	Standard	Comment
Dissolved Oxygen (DO)	Minimum for warm water = 4-5 mg/L; Minimum for cold water = 6-7 mg/L	See Rule 323.1064-65 for details
Bacteria (<i>E. coli</i>)	Total body contact = 130 colonies/100 mL of water; Partial body contact = 1,000 colonies/100 mL of water	See Rule 323.1062 for details
Water temperature	R323.1075 only lists temperature standards for point source discharges and mixing zones, not ambient water temperatures in surface water.	Recommended maximum temperatures are listed in the table below.
Phosphorus (under Plant Nutrients)	Prevent excessive aquatic growths that interfere with the designated uses	Analysis should be done using EPA Method 365.4
Settleable solids or suspended solids	Not present in concentrations which interfere with the designated uses	If it is obvious, it's causing a problem.

*(taken from the Part 4 rules promulgated pursuant to Part 31 of PA 451)

Maximum Monthly Temperatures (°F) for Discharges to Southern Michigan Streams

Designation	J	F	M	A	M	J	J	A	S	O	N	D
Cold Water	38	38	43	54	65	68	68	68	63	56	48	40
Warm Water	41	40	50	63	76	84	85	85	79	68	55	43