



# City of Fenton

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301 South Leroy Street · Fenton, Michigan 48430-2196 • (810) 629-2261 • FAX (810) 629-2004

## **COUNCIL WORK SESSION AGENDA**

**Monday, November 7, 2011**

**City Hall Conference Room**

**301 South Leroy Street**

**7:30 PM**

1. Call to Order.
2. Roll Call.
3. Citizen Comments: Request by citizens to speak on specific agenda items.
4. Discussion on Wildlife Management's services at the Water Plant.
5. Discussion on the Stormwater Pollution Prevention Initiative (SWPPI).
6. Council Member Comments.
7. Call to the Audience.
8. Adjournment.

IF ACCOMMODATIONS ARE NEEDED DUE TO A DISABILITY, PLEASE CONTACT THE CITY CLERK'S OFFICE.

# Memorandum



THE CITY OF  
FENTON

**DATE:** November 3, 2011

**TO:** Lynn Markland, City Manager

**FROM:** Daniel Czarnecki, Public Works Director

**RE:** Wildlife Management at Water Plant

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Last fall the City hired Wildlife Management and Rescue to trap and remove animals that were making homes in the fenced area behind the water treatment plant, around the lime lagoons and storm water retention ponds. The animals were creating a nuisance and compromising the integrity of the ground around the plant. As part of our new groundwater discharge permit we received from the MDEQ, these items needed to be addressed. The cost to the City for this was \$2,500.


Over the past year Wildlife Management and Rescue live trapped and removed 77 animals from the property (see attached memo from Steve Guy). The program has been successful and should be continued. Wildlife Management and Resources has quoted this service for the City for 2012 at the same rate, \$2,500.

It is our recommendation that City Council approve hiring Wildlife Management and Rescue, Flushing Michigan, to trap and remove wildlife from the wastewater treatment plant property for calendar year 2012, at a cost of \$2,500.



# City of Fenton

301 South Leroy Street · Fenton Michigan 48430-2196 • (810) 629-2261 • FAX (810) 629-2004

**Date:** 11/03/11  
**To:** Daniel Czarniecki  
**From:** Stephen D. Guy   
**RE:** Plant Grounds

In February of 2011 the new groundwater discharge permit took effect. Part of the general conditions of a discharge permit is that no nuisance conditions or flooding of adjacent property to take place. The system is designed to keep lime sludge in specific cells, and storm runoff in another area.

Last year a lot of animals that borough such as woodchuck were noticed on the grounds along with other animals such as fox. The woodchucks can borough up to 35 feet into a hole. Excessive burroughing could cause a berm to weaken and collapse causing lime to go outside of the lagoon that it was designed to be captured in. In order to keep this from happening Wildlife Management and Rescue was contracted to control the animals in the area. The animals are live trapped and relocated. As Wildlife Management and Rescue performed their work a lot of other animals were found to be around the area. The most worrisome was a badger. There is work performed out in this area and this type of the animals can put workers at risk.

Up to the July 2011 invoice the animal count was as follows:

Fox	21	Coyotes	16	Raccoons	3
Skunks	21	Woodchucks	12	Domestic cats	4

Last year's recommendation was that it would take at least 2 years to put the area under control. There have been flags put out on the property that create movement. A screen cover has been put over the overflow catch basin to keep animals from crawling in to keep warm. The trees and saplings have been removed to keep cover to a minimum and the property is mowed two times per year by the DPW to keep the vegetative cover down.

This program needs to continue in order to keep the animal situation under control.

# Memorandum



THE CITY OF  
FENTON

**DATE:** November 3, 2011

**TO:** Lynn Markland, City Manager

**FROM:** Daniel Czarnecki, Public Works Director

**RE:** Stormwater Pollution Prevention Initiative

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The City of Fenton is a Phase II Stormwater community. As such we are required to obtain a stormwater discharge permit issued by the State of Michigan. Along with the permit are the requirements to develop a Stormwater Pollution Prevention Initiative plan (SWPPI) that includes a Watershed Management Plan (WMP) and an Illicit Discharge Elimination Plan (IDEP). To save money and to work together with other Phase II communities within the watershed, the City of Fenton entered into a 342 Storm Water contract with the Genesee County Drain Commissioner's Office (GCDC) to create a consortium of member communities. The GCDC administers the overall program and works with all communities to develop and implement the IDEP and to help create and distribute education materials. The GCDC has submitted the IDEP to the State as required by our permit.

The attached SWPPI and WMP for Fenton have been updated and are ready to send to the MDEQ as required by our stormwater discharge permit. The items shaded in the plan are requirements the City of Fenton needs to work towards. The non-shaded items are those to be worked on in conjunction with all members of the consortium.

At this time it is my recommendation that City Council approves the Stormwater Pollution Prevention Initiative plan and authorizes the Mayor to sign the document.

City of Fenton, Michigan

# Stormwater Pollution Prevention Initiative (SWPPI) for the Upper 1-Shiawassee River Watershed Middle Flint River Watershed

Michigan General Permit Number MIG619000

Certificate of Coverage Number MIG610065

Municipality/Agency: City of Fenton

Address: 301 South Leroy Street, Fenton MI 48430

Contact Person: Daniel Czarnecki Telephone: 810-629-2261

Title: DPW Director Date: November 1, 2011

Signature of Authorized Permittee Representative: \_\_\_\_\_  
Mayor:

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### ACRONYMS

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

COC	Certificate of Coverage
IDEP	Illicit Discharge Elimination Plan
MDEQ	Michigan Department of Environmental Quality
PEP	Public Education Plan
PPP	Public Participation Plan
SWPPI	Storm Water Pollution Prevention Initiative
TMDL	Total Maximum Daily Load
WMP	Watershed Management Plan

### 1.0 GENERAL INFORMATION

City of Fenton is located within 2 watersheds. This SWPPI is being submitted for the Upper 1 Shiawassee River & Middle Flint River Watersheds.

This Storm Water Pollution Prevention Initiative (SWPPI) has been prepared for the communities within Genesee County to comply with the Phase II Storm Water National Pollutant Discharge Elimination System (NPDES) general permit requirement led by the Genesee County Drain Commissioner's Office of Surface Water Management. The goals, objectives, and actions listed in the SWPPI were developed in compliance with the Public Participation Plan (PPP) requirements.

#### 1.1 Watershed Management Plan Disagreements

Some communities may have disagreements to certain items in the Watershed Management Plan (WMP).

Action 1.a.3. City of Fenton is willing to consider support of a countywide ordinance managed by the County, however, at this time is not considering the adoption & enforcement of a City septic system ordinance. The State gave the County authority over the septic systems and the Genesee County Health Department is the department that enforces building and enforcement.

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## 1.2 Participating Permittees in the Watershed

The Phase II communities from the **Upper 1-Shiawassee River Watershed** & the **Middle Flint River Watershed** are as follows:

<b>Municipality</b>	<b>COC</b>	<b>Municipality</b>	<b>COC</b>
• Argentine Township	MIG610058	• Fenton Township	MIG610064
• City of Burton	MIG610060	• Flint Township	MIG610066
• City of Davison	MIG610063	• Gaines Township	MIG610071
• <b>City of Fenton</b>	<b>MIG610065</b>	• Genesee Township	MIG610073
• City of Grand Blanc	MIG610075	• Grand Blanc Township	MIG610076
• City of Linden	MIG610078	• Mundy Township	MIG610083
• City of Swartz Creek	MIG610086	• Genesee County	MIG610072
• Clayton Township	MIG610062	• Livingston County	
• Davison Township	MIG610089	• Oakland County	

## 1.3 SWPPI Requirements

The NPDES Phase II General Permit requirements can be found at <http://www.deq.state.mi.us/documents/deq-water-generalpermit-npdes-MIG619000.pdf> on the world-wide web. The Permit requirements state that the submission of a SWPPI shall, at a minimum, include the following:

- 1) *The actions required of the permittee in the WMP in accordance with the dates specified, taking into account any specific disagreements to the WMP which were provided by the permittee and included in the appendix to the WMP. (Note: if the WMP requirement has been deferred until a later time, as indicated on the certificate of coverage, the SWPPI shall initially be developed without consideration of the WMP.)*
- 2) *The evaluation and implementation of pollution prevention and good housekeeping activities, as appropriate. This item shall include a training and inspection program for staff and contractors employed by the permittee in activities that may affect storm water runoff.*

*The permittee shall include the following activities for inclusion in the SWPPI, or explain why the activities do not apply:*

- a. *maintenance activities, maintenance schedules, and inspection procedures for storm water structural controls to reduce pollutants (including floatables) in discharges from the permittee's separate storm water drainage system;*
- b. *controls for reducing or eliminating the discharges of pollutants from streets, roads, highways, parking lots, and maintenance garages;*
- c. *procedures for the proper disposal of operation and maintenance waste from the separate storm water drainage system (dredge spoil, accumulated sediments, floatables, and other debris);*
- d. *ways to ensure that flood management projects assess the impacts on the water quality of the receiving waters and, whenever possible, examine existing water quantity structures for incorporation of additional water quality protection devices or practices; and*

- e. *implementation of controls to reduce the discharge of pollutants related to application of pesticides, herbicides, and fertilizers applied in the permittee's regulated area.*

- 3) *The development, implementation, and enforcement of a comprehensive storm water management program for post-construction controls for areas of new development and significant redevelopment. The goal is to protect the designated uses in the receiving water from the effects commonly associated with urbanization. These effects include: "flashiness" (higher peak flows and lower base flows), stream-bank erosion, increased stream temperature and pollutant load, reduced bank vegetation, and degraded fish and other aquatic habitats.*

*The permittee shall evaluate and implement site appropriate, cost-effective structural and nonstructural best management practices (BMPs) that prevent or minimize the impacts on water quality. Common controls for urbanization include: policies and ordinances to direct growth to identified areas, to limit the rate and volume of storm water discharged to pre-developmental hydrologic levels, to protect sensitive areas such as wetlands and riparian areas, and to maintain and/or increase open spaces (including a dedicated funding source for open space acquisition); encouraging infill development in higher density urban areas and areas with existing infrastructure; establishing in-stream maximum flow targets designed to minimize stream bank erosion and maintain healthy aquatic populations; and coordinating release volumes and rates from detention basins to achieve in-stream maximum flow targets. These controls shall have associated requirements for their long-term operation and maintenance to retain the level of water quality protection over time.*

- 4) *The methods of assessing progress in storm water pollution prevention.*

#### **1.4 Satisfying the SWPPI Requirements**

Section 4 of this document presents in tabular form the long and short term action items that will satisfy the objectives and goals identified in the WMP. Each action item includes information on who is leading the efforts, time and material estimates to complete the task, the schedule and the measurable for each action (*satisfying requirement 1 as presented above*). The methods of assessing progress (*requirement 4 above*) is addressed in two locations; Section 3 and the table in Section 5.

#### **1.5 SWPPI Goals and Objectives**

Through the WMP effort, five goals were developed and ranked by committee members, stakeholders and the public. The goals are presented in Section 6 of the Watershed Management Plan and are summarized below.

Goal #1: Protect Public Health

Goal #2: Establish a Watershed Stewardship Ethic Among the Public

Goal #3: Reduce Impact from Peak Flow

Goal #4: Create, Restore, and Enhance Recreational Uses

Goal #5: Restore and Protect Aquatic Life, Wildlife, and Habitat

Goal #6: Conduct Municipal Good Housekeeping Activities

Goal #7: Adopt requirements for Post Construction Controls

Goal #8: Opportunities for Sustainability



## 2.0 WATERSHED PLANNING ORGANIZATION

### 2.1 Committee Organization

The following section discusses the decision making process used to develop the watershed management plan and SWPPI table. The committee structure is used to accomplish many of the actions in the SWPPI and is discussed below.

#### *Genesee County Stormwater Advisory Committee*

This committee is made up of all the Communities in Genesee County that signed a 342 contract with the Genesee County Drain Commissioner, including non-phase II communities. This committee guides the implementation of the entire Phase II Program and has three main sub-committees set up to address specific issues. Each Phase II Community serves on at least one sub-committee. A brief explanation of the duties of these sub-committees follows.

#### Public Education and Participation Sub-Committee

The Public Education and Participation Sub-Committee guides the overall Public Education and Participation Process for the Watershed Management Planning effort.

#### Construction Standards and Practices Sub-Committee

The Construction Standards and Practices Sub-Committee examines new construction standards and post construction practices for Genesee County. They will work to update existing ordinances to make sure that consistency and EPA elements are met.

#### Monitoring and Mapping Sub-Committee

The Monitoring and Mapping Sub-Committee guides organization and implementation of the illicit discharge elimination program (IDEP), mapping guidelines, field-sampling protocols, and how the watershed will be monitored for progress.

Local government leaders will share their insights and views of the watershed throughout the project at workshops and meetings, as well as at other formal and informal exchanges. The value of such insights should not be underestimated and are important to a plan development process led at the local level.

The Upper, Lower and Middle Flint River As well as the Shiawassee River Management Plans identified Goals, objectives and action items that addressed the goals and objectives. See the respective water shed management plans for details.

The members of the Genesee County Communities elected to continue to work together wherever possible in addressing the action items. As such, the three technical committees discussed above are charged with addressing the action items.

Although all the action items will initially be addressed by the four committees and Genesee County, the City of Fenton acknowledges that they are ultimately responsible for ensuring that the action items are completed within the City itself.

The shaded action items listed in the WMP were actions that the individual permittees were responsible for. It was up to each permittee to determine the level of involvement, if any, that they would have with these shaded action items.

### 3.0 MEASURABLE GOALS

Evaluation methods for measuring success are presented in the Watershed Management Plan Section 9 and are summarized below and in Table 1.

Measurable uses include:

- 1) **Completion of Activity**  
Simply stated, this means that the activity has been completed. See the “Evaluation Mechanism” column in Section 4.0’s SWPPI table for details.
- 2) **Measure of Usage**  
Measurable Usage tracks the number of completed activities and how much they were used, i.e. the number brochures distributed, the number of website hits, etc. See the “Evaluation Mechanism” column in Section 4.0’s SWPPI table for details.
- 3) **Behavior Change and/or Knowledge Change**  
The public education committee developed and administered a baseline survey to assess public knowledge of the NPDES Phase II requirements. The survey was administered by phone and a written version was submitted to municipalities. The public education committee intends to use the survey results to guide public education efforts. Once the public education program has been in effect for 2 to 3 years it is the intent of the committee to re-administer the survey to determine if there has been any change in public knowledge and behavior. We anticipate the survey to be administered early to mid way through the next permit cycle.
- 4) **Changes in Water Quality**  
Water quality assessment is the analysis of water quality data to draw conclusions on the condition of or changes to the condition of receiving waters or discharges to those waters. The water quality assessment provides a way to assess the attainment of direct measures of success. Long-term assessment is also necessary to ensure that seasonal, annual, and other variables can be identified and are considered when interpreting the results.

Four watershed monitoring methods will be used throughout the watershed to help evaluate the effectiveness of WMP implementation. Additional detail is available in Section 7 of the WMP. The four methods include the following:

- Benthic macro-invertebrate monitoring (Objective 2e)
- Stream crossing watershed survey and photographs
- Water quality monitoring (Objective 2f and State Monitoring Program)
- Hot spot testing at hazardous sites (IDEP)

These items are included as Actions in the table in Section 4.0.

#### 4.0 FUNDING OF THE PHASE II REQUIREMENTS

In 2003 all the Communities (except the City of Flint) in Genesee County have entered into a County Public Improvement Agreement (P.A. 342) with the Genesee County. The Genesee County Drain Commissioner's office was designated the agency to manage this agreement/ contract. The first task was to prepare a watershed based application for each community including the County to apply for a NPDES Phase II permit. Subsequently once school districts were required to participate, the County agreed to nested jurisdictions for those schools that wished to sign agreements. All of Genesee County's School districts have signed contracts with the Drain Commissioner's Office to be nested jurisdictions under The County's Certificate of Coverage. The P.A. 342 agreement will expire in 2008 to coincide with the expiration of each community's Certificate of Coverage. Also the Nested Jurisdiction agreements are expiring in 2008.

Under the 342 agreement, the Drain Commission is responsible for establishing just, equitable and uniform rates, charges, or assessments to pay for the preparation and implementation of the watershed permit. Communities contracting with the Drain Commission may use the following five methods of raising funds to pay for services:

- 1) Annual property tax levy;
- 2) Special assessment on property;
- 3) Rates or charges to service users;
- 4) Tax revenue from the state; and
- 5) Other funds, which may validly be used for the contract purpose.

\*currently most of the communities are taking these funds from their general fund.

The current contract yields \$500,000 annually with \$80,000 being apportioned to the Public Education Planning effort, \$40,000 to the Monitoring and Mapping Committee, and the remainder to the Illicit Discharge Connection Program (IDEP) and other initiatives. Many of the items contained in the *5.0 Action* section refer to E342C under the "Cost Estimate" columns. Where this acronym is listed, the associated action will be paid for through funds derived from this contract.

## 5.0 ACTIONS

The attached table provides the activities from the Watershed Management Plan (WMP) that, when implemented, meet the SWPPI requirements. The participating permittees are those permitted municipal entities which are required to address storm water through their SWPPI document. The supporting agencies listed in the table are also drawn from the WMP.

In the “Labor Hour & Material Cost Estimates” column there is a reference to E342C. The presents of the E342C acronym indicates that the related action item will be paid for out of the Municipalities’ current County Public Improvement Agreement (P.A. 342) with the Genesee County Drain Commissioner’s office. For more information please see Section 4.0: Funding of the Phase II Requirements.

In the SWPPI table below each permittee has several option of on how to respond to each action. The choices are as follows:

E = Existing/currently doing

C = Commitment\*

“-“ = No Commitment, with explanation in the comment section.

W = Wish List

NA = Not applicable, with explanation in the comment section.

\* If the action is to be undertaken in the *short-term* (before June 1, 2012), a date (month/year) indicating when the task will begin is provided in the “permittee schedule” column. If the action is to be undertaken in the *long-term* then the year the task is to be begin is provided in the “permittee schedule” column. For *wish list* items a date is not provided.

Goal	Objective	Action	Responsible Parties				WMP Schedule	Labor	Hours	Coet	Evaluation Mechanism	Included In SWPPP	Permittee Schedule City of Fenton	Comments		
			PEP Committee	M&M Committee	BMP Committee	Phase II Permittee										
1. Protect public health	a. Ordinance to have septic systems inspected at "time of sale"	1. Draft an ordinance requiring inspection of septic systems at time of property sale (County Wide)			Y		S	E342C	80-100 hours	\$5,000 - \$10,000	Draft ordinance is produced and adopted by Committee	Y	W			
		2. Develop fee structure options for septic ordinance.			Y		S	E342C	80-200 hours	\$5,000 - \$10,000	Document that outlines fee options and evaluates the practicality of each of them. (Adoption of a funding options)	Y	W			
		3. The County will adopt a new ordinance for septic inspection. Municipal Permittees will support the ordinance.			Y		S	E342C	20-100 hours	Legal fees per community	Resolution to support county or local ordinance is adopted by council	Y	W	City of Fenton may support a County Ordinance but may not pass a local ordinance		
		4. Responsible Permittees will make appropriate staff available to be trained on enforcement			Y		S	E342C	100-400 hours	\$300-\$2000	Municipal staff to attend training	Y	W	See above		
		5. Enforcement of the new septic ordinance			Y		L		TBD	TBD	No. of Inspections Long Term Failure Rate Trend Improvement in water quality, especially in rural areas.	Y	W	See above		
		6. Develop & implement septic system tracking program for evaluation purposes			Y		L		TBD	TBD	No. of Inspections Long Term Failure Rate Trend	Y	W	See above		
	b. Develop Educational Materials For Homeowners With Septic Systems to be Given at "Time of Sale". Main Topic: Septic System Maintenance, Other Topics: Include Lawn Maintenance, Auto Care, Well Water, Household Hazardous Waste Disposal, and well protection.	1. Explore funding options. Potentially use advertising to fund costs.	Y				S		40-200 hours of prioritizing and finding funding	\$8,000+	Memo on options Presentations to appropriate authorities Adoption of a funding option	Y	E			
		2. Develop partnership with local organizations, such as real estate agents, to promote and distribute information on septic systems.	Y				S		50-100 hours	\$1-\$3 ea 500-1000 packets \$500 - \$3000 Total	Distribution channels are established and maintained No. of packets distributed by partners.	Y	Apr-12			
		3. Implement distribution of booklet for new homeowners with septic systems				Y	S		20-50 hours to distribute	TBD, dependent on distribution method	Count # packets distributed by Permittee to new home owners	Y	Sep-12			
		4. Develop tracking mechanism for evaluation purposes	Y				S		120 hours of organizing mailing	Brochures \$2000-\$10,000	No. of packets printed and distributed by Permittees and organization. Social Survey	Y	Apr-12			
		2. Establish a watershed stewardship ethic among the public	a. Educate the public about the 7 required education elements	1. Update www.ClearGeneseeWater.org with watershed wide educational material, monitoring results, permit information, meeting information and committees as needed	Y				O	E342C	80-200 hours/year	Part of Education Media Campaign budget	No. of hits on website and downloads. List of information kept on website	Y	E	
		2. Place link on website connecting to above website if available.				Y	S		Varies	Varies	Counters recording number of hits on Permittees websites	Y	E			
3. Develop print media to educate public	Y					C	E342C	60 hours	\$2,000-\$5,000	Print material developed	Y	E				
4. Distribute media through municipalities				Y		O	E342C	20 hours/year	Public education budget	No. of ad's, print material and units distributed (etc.) by each Permittee	Y	E	Currently Distribute informational packets developed by PEP			
		5. Develop evaluation method to track effectiveness of media.	Y			S		200+hours	\$3,000+	No. of ad's, print material and units distributed (etc.) by each Permittee Social survey	Y	E				
b. Direct Mailing to Riparian Land owners (Rivers/Lakes)	1. Design riparian landowner educational materials emphasizing protecting and managing the riparian corridor.	Y				S		80+ hours	Brochures part of Education Media Campaign budget \$2,000-\$10,000	Creation of riparian landowner brochure	Y	E	Currently evaluating whether to mail information and are exploring alternative options for program.			
	2. Develop & maintain a list of riparian landowners	Y				S		20 hours per community	Develop cost analysis	List developed with regularly scheduled updates (5 yrs)	Y	E	List has been created.			
	3. Implement direct mailings to land owners and updating public education materials.	Y				S		30+ hours	\$4,000-\$8,000	No. of information packets distributed No. of hits on web site. Returned postcard from newsletter	Y	E	Delivery vehicle is being determined.			

Goal	Objective	Action	Responsible Parties				WMP Schedule	Labor	Hours	Cost	Evaluation Mechanism	Included in SWPPI	Permit Schedule City of Fenton	Comments
			PEP Committee	M&M Committee	BMP Committee	Phase II Permittee								
		4. Develop evaluation method to track effectiveness of program.	Y				S		200+hours	\$3,000+	No. of information packets distributed No. of hits on web site <u>Specific Survey</u>	Y	Jun-12	Delivery vehicle is being determined.
	d. Enhance Existing Benthic Monitoring Program	1. Meet with Flint River Watershed Coalition (FRWC) to identified opportunities to develop partnership(s).		Y			C		5 hours	Negligible	The 16 sites in Genesee county are tested consistently twice a year	Y	E	
		2. Identify additional stream segments that would be desirable to gather macroinvertebrate sampling data on		Y			C		10-20 hours	Negligible	Additional sites are identified.	Y	E	
		3. Determine what additional resources are needed to expand the monitoring program.		Y			O		20 hours to meet to negotiate contract with FRWC	Negligible	Report of estimated additional resources needed.	Y	E	
		4. Implement a yearly schedule and set up dead lines displaying when stream sections will be inventory yearly		Y			O	E342C contract done by FRWC	10-20 hours	Part of below contract with FRWC	Schedule set	Y	E	
		5. Sign contract with FRWC to provide Benthic Monitoring		Y			C		Negligible	\$5,150/year	Sign Contract	Y	E	
		6. Review Results from past seasons. Current results will be reviewed each year		Y			S	E342C	40-80 hours/year	Negligible	Trend data is entered and analyzed. All monitoring activities should be related	Y	E	Completed. See Project Green report in year end report.
		7. Conduct monitoring					O	Done by FRWC	Part of below contract with FRWC	Part of below contract with FRWC	Track WQ improvements over the permit cycle	Y	E	
	e. Enhance Existing Project GREEN Program	1. Sign Contract with FRWC to administer program		Y			C		Negligible	\$7,500/year	Contract Signed	Y	E	
		2. Identify local schools to participate. Meet with school district representatives		Y			O	E342C	40-80 hours/year	Done by contract with FRWC	Organizations that participate are identified. No. of classes participating in project Green	Y	E	
		3. Increase number of classes involved with program		Y			O	Done by FRWC	Done by contract with FRWC	Done by contract with FRWC	Number of classes participating increase	Y	E	
		4. Conduct monitoring		Y			O	Done by FRWC	Done by contract with FRWC	Done by contract with FRWC	Samples of DO, Ammonia, Nitrate, PH, Phosphate, and temperature are collected regularly. Monitoring is completed and results are compiled	Y	E	
		5. Review Results		Y			S	E342C	20 hours/month	Up to \$5,000	Results provided for all sites. Trend data is entered and analyzed	Y	E	See year end report.
	f. Stream Crossing Watershed Survey with Photography	1. Develop road stream inspection program. (Identify road/stream crossings, information collected)		Y			C	E342C	20 hours	Total additional cost \$500-\$2,000	Documentation of water and stream characteristics, plant life, foam, trash, etc.	Y	E	Surveyed about 140 road/stream crossings with photos in 2007
		2. Determine implementation options and responsibilities.		Y			C	E342C	20 hours	Negligible	Memo on options. Presentations to appropriate authorities	Y	E	
		3. Provide training to personnel responsible for completing survey		Y			O	E342C	20 hours	\$8,000/year	No. of people trained. Program sustained over time	Y	E	
		4. Conduct survey based on a schedule develops		Y			S	E342C	200+ hours per year	varies per year	Schedule is created and implemented. Photos are taken, reports are written	Y	E	
		5. Review results		Y			S	E342C	20 hours	Negligible	Data entered and analysis performed	Y	Jun-12	
	g. Hot Spot Water Quality Monitoring for MS4's as needed	1. Identify initial list of target sites, chemical tests, parameters and collection method.		Y			O	E342C	Will vary	Costs are as needed. Comes out of E342C	Documentation of water quality associated with hot spots.	Y	E	Through IDEP Program, hot spots have been identified for further investigation.
		2. Determine testing needed for each site		Y			C	E342C	Will vary	Will vary	Plan and needs assessment created. Advanced sample collection needs to be done by professionals	Y	E	
		3. Create a protocol manual for fieldwork crews (lab results parameters and collection methods).		Y			C	E342C	10 hours	Costs are as needed. Comes out of E342C	Sites and protocols established	Y	E	
		4. Schedule and conduct field work done by professionals (Consultants)		Y			O	E342C	80+ hours per year	\$1,000-\$1,500 per site	Schedule established, WQ samples collected	Y	E	
		5. Review Results		Y			O	E342C	20 hours	Database costs are part of contract with Tetra Tech	Trend data is entered and analyzed. All monitoring activities should be related together (e.g. road/stream, WQ)	Y	E	
3. Reduce impact from peak flows	a. Storm Water Ordinance	1. Create a storm water design standards/site plan manual.		Y			S	E342C	200-2,000 hours		Creation of a design manual	Y	E	



Goal	Objective	Action	Responsible Parties				WMP Schedule	Labor	Hours	Cost	Evaluation Mechanism	Included in SWPPI	Permittee Schedule City of Fenton	Comments
			PEP Committee	M&M Committee	BMP Committee	Phase II Permittee								
		2. Develop table that will show how much the installed BMPs will reduce or prevent post-construction impacts on water quality			Y		L		Will vary for each Permittee	Will vary for each Permittee	Mechanism developed to track quantity and types of pollutants removed by various BMPs	Y	E	
		3. Draft a stormwater ordinance that refers to the design/site plan manual that considers quantity and quality BMPs.			Y		S	E342C	40-200 hours per committee members	TBD	Draft ordinance is produced	Y	E	
		4. Develop new County site plan review process with the following steps: Step 1: Pre-Development Step 2: Prepare site plan Step 3: Coordinated County Review Step 4: Municipal Review Step 5: Site Plan Step 6: Approval			Y		L	E342C	200+	\$5,000	Process is adopted and followed by county and communities. New development begins to take different form.	Y	E	
		5. Develop permit fee structure to cover the cost of processing and enforcement with provision for future adjustments			Y		L	E342C	20-100 hours	\$2,500-\$3,000	Document that outlines fee options and evaluates the practicality of each of them. Adoption of a funding option(s)	Y	Jun-12	
		6. Facilitate community acceptance through public forms and information packets.			Y		L		40-200 hours per community		Facilitate local information sessions No. of information packets distributed by Permittees	Y	2012	
		7. Permittees to approve/adopt ordinance.			Y		L		Will vary	Will vary	Resolution to support county or local ordinance is adopted by council	Y	2013	
		8. Responsible Permittees will make appropriate staff available to be trained on the storm water ordinance, process and design manual			Y		L		10 hours	\$500	Municipality Staff will participate in training	Y	2013	
		9. SWM Permittees to enforce new storm water ordinance.			Y		L		TBD	3-4 staff \$120-160K/year	No. of citations issued by Permittee No. of developments going thru the process	Y	2013	
4. Create, restore, & Enhance Recreational Use	a. Educate Public about recreational opportunities near/ on the water	1. Promote recreational programs (website, brochures, and community news.)			Y		S		10-20 Hours	\$5,000	# of hits on Permittee's Parks and Recreation page (if applicable) Website # of flyers distributed by Permittee	Y	E	
		2. Distribute materials on recreational programs through municipalities			Y		S		60-80 Hours	Nominal	# of hits on Permittee's Parks and Recreation page (if applicable) Website. # of flyers distributed by Permittee	Y	E	
5. Restore and protect aquatic life, wildlife and habitat	a. Establish vegetative buffer areas adjacent to sensitive areas	1. Draft Buffer Strip Ordinance			Y		L	E342C	100-500 hours	\$5,000-\$15,000	Draft ordinance is produced	Y	2013	City of Fenton has a Buffer strip ordinance for setbacks on rivers, lakes & streams.
		2. Develop fee structure options for buffer strip ordinance.			Y		L	E342C	100-500 hours	\$5,000	Document that outlines fee options and evaluates the practicality of each of them. Adoption of a funding option(s)	Y	2013	
		3. Permittees adopt new ordinance.			Y		L		20-100 hours	Legal fees vary by community	Resolution to support local ordinance is adopted by council	Y	2014	City would be willing to look at any proposed ordinance to see if changes were needed.
		4. Responsible Permittees will make appropriate staff available to be trained about the new buffer ordinance			Y		L		10 hours per community	Staff costs vary by community	Municipal Staff to attend training	Y	2014	
		5. Permittees to enforce new stream buffer strip ordinance			Y		L		will vary by year	Enforcement costs will vary by community	No. of miles of buffer strips implemented	Y	2014	
		6. Develop tracking method for enforcement			Y		L		TBD	TBD	No. of developments subject to new ordinance	Y	2014+	
6. MDEQ requirement - good housekeeping activities	a. Ensure Maintenance activities, schedules, and inspection procedures for storm water structural controls (SWSC) as appropriate	1. Develop or adopt a BMP manual to provide Permittees with maintenance procedures to be implemented for Good Housekeeping Activities			Y		S		20+ hours	nominal	BMP manual developed or adopted	Y	E	
		2. Develop schedule for inspection & maintenance procedures of SWSC owned by Permittee			Y		S		60+ hours	nominal	Structural controls identified. Maintenance and inspection schedule developed	Y	E	The City already has a schedule for inspection of the storm system
		3. Permittees will make appropriate staff available to be trained			Y		S		16+ hours per person	nominal	Appropriate municipal staff trained	Y	E	Work done by contract, will have language in it on necessary training
		4. Inspect all SWSC owned by Permittee according to schedule			Y		S		based on schedule developed	based on schedule developed	Inspections done according to schedule	Y	E	Yearly inspections are already being done.
		5. Perform maintenance / repair to SWSC owned by Permittee (including but not limited to)			Y		S		based on inspection made	based on inspection made	Maintenance of structural controls owned or operated by Permittee as needed according to inspection	Y	E	Maintenance is done on a as-needed based on inspection