



*Saginaw Area Storm Water Authority*

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# 2004 Annual Report

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October 15, 2004



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**Saginaw Area Storm Water Authority (SASWA)**

October 12, 2004

2004 Annual Report for the following NPDES Storm Water Discharge Permits:

<b>MEMBER</b>	<b>NPDES Permit Number</b>
Birch Run Township	MIG 610168
Bridgeport Charter Township	MIG 610181
Bridgeport Spaulding Community Schools	MIG 610180
Buena Vista Charter Twp	MIG 610167
Carrollton Township & School District	MIG 610165
James Township	MIG 610164
Kochville Township	MIG 610162
Saginaw – City of	MIG 610161
Saginaw County Road Commission	MIG 610178
Saginaw County	MIG 610171
Saginaw Charter Twp	MIG 610166
Saginaw Township Community Schools	MIG 610176
Saginaw Intermediate School District	MIG 610183
Saginaw Valley State University	MIG 610179
Spaulding Township	MIG 610169
Swan Valley School District	MIG 610175
Thomas Township	MIG 610174
Tittabawassee Township	MIG 610172
Zilwaukee – City of	MIG 610159

This report will follow the annual progress report guidelines as set forth in the NPDES permit number MIG619000, section B, Watershed Management, Part 3 Annual Progress Report. The report will be submitted to the MDEQ’s Saginaw Bay District Office on October 15, 2004, as stated in each of the permits listed above.

**a. Illicit Discharge Elimination Plan (IDEP)**

The IDEP program has not been officially implemented in Saginaw County. The submittal date specified for the IDEP is November 1, 2004. The IDEP will be submitted at that time. However, aspects of this program have been implemented as a precursor to begin the elimination of stormwater pollution in the communities of the Saginaw Urbanized Area. Specifically, the following:

Over fifty (50) staff and management personnel from the SASWA member municipalities and agencies received their certification in Storm Water Operator – Construction Sites in classes provided by the Saginaw Bay District office of the MDEQ in 2003 and January of 2004. Additional classes have been offered at various times to provide opportunity for additional training.

SASWA then developed and implemented a spill response training program for the membership. This spill response program involved the cooperation and cross training of personnel from the NPDES permitted agencies. Sixty-one (61) staff personnel were trained at this program offered on February 10<sup>th</sup> and 17<sup>th</sup> of 2004. The spill response program, procedure, and policy of SASWA was then presented, on March 17, 2004, to the Saginaw County Fire Chiefs Association meeting, which was attended by approximately fifty (50) area fire fighting and hazardous materials response officers representing all the fire departments in Saginaw County. The course overviews, attendance list, procedure, call list, and other forms for the February training are in Appendix A.

The spill response procedures and policy were then communicated to Saginaw County's 9-1-1 Central Dispatching Agency supervisory staff and personnel in a meeting on March 24, 2004. The procedure established for reporting minor spills and dumping in storm water conveyance systems involves the utilization of the newly established non-emergency 3-1-1 phone lines.

Brochures have been developed to introduce the program to the residents of Saginaw County and will be distributed during the implementation phase of the IDEP. A copy of the brochure is available in Appendix B.

The SASWA website's home page provides the general public with the opportunity to report any spills or dumping in the SASWA watershed or the county as a whole. The website provides the public that uses this form of communication and information transfer with the ability to view information on what comprises illicit discharges and how to report them. The ability to report spills or discharges by the website will be communicated to the public during the implementation of the IDEP.

To date, there have been four (4) spill responses that have been covered under this program. Each incident was critiqued in a SASWA executive committee meeting to provide the SASWA members with a means to streamline the program and further develop the procedure. There were two (2) incidents in Bridgeport Charter Township

with reports from the fire department documenting the incidents. There were two (2) incidents in Saginaw Charter Township with one (1) incident report available. One report from July 21<sup>st</sup> was lost in a computer hard drive crash. The remaining incident was documented on a SASWA form and can be found in Appendix C with the incident report forms from Bridgeport Charter Township's fire chief.

To have an effective IDEP program the SASWA, through the efforts of the Saginaw County Public Works Commissioner, has initiated the proper step to implement a countywide ordinance to address water quality issues. The ordinance will address illicit discharges and intentional spills in a manner that will allow for proper enforcement action to be taken by either the county's Public Works Commissioner or duly authorized municipal personnel. The ordinance is in draft form and needs to have some minor issues resolved before it will be brought before the county's Board of Commissioners for final approval and adoption.

The county has enacted an ordinance to deal with Soil Erosion and Sediment Control issues as civil infractions in 2004. Authorized members of the Saginaw County Public Works Commissioner's office will enforce the ordinance.

Several members of SASWA attended the IDEP workshop sponsored by the MDEQ and held at SVSU on April 22, 2004. Approximately forty (40) people attended the seminar developed by Wayne County Department of Environment. SASWA had approximately ten (10) members attend the session.

#### **b. Public Education Plan (PEP)**

The SASWA implemented its PEP almost at its conception in 2002. The first phase under the Saginaw Clean Water Alliance, a study group formed to implement the authority, began its public education of the various members that would be affected by the NPDES Phase II stormwater regulations. A PowerPoint program was developed and used to educate the municipal, school district, university, and public agency members. As new members were identified, the Alliance used its consultant to provide one-on-one education regarding NPDES. In 2003, the Alliance became the Saginaw Area Storm Water Authority after publication of the Articles of Incorporation on January 6, 2003. The Notice of Coverage for all members was submitted to the MDEQ on March 10, 2003 as prescribed in the regulations. The PEP was submitted at that time.

#### **The following relates to the PEP required element number 1: Watershed Education, Activities 1 and 2:**

Brochures have been developed related to topics on car washing activities, lawn care, proper disposal of household wastes, care of storm sewer systems, care of catch basins on construction sites, and the Top Ten things you can do to Prevent Stormwater Pollution. See Appendix D for these brochures.

One of the first items implemented by the SASWA to act as an administrative and educational channel was the development of SASWA's presence on the World Wide Web. This web presence provides the SASWA with the opportunity to provide an education venue that is becoming a standard method in this information age. The web presence was formally established in the fall of 2003 and is an ongoing element of the SASWA.

The site is used by members to provide:

- watershed education by video streaming the MWEA Watershed Education CD to residents on the website,
- information on storm water regulations,
- information on storm water pollution prevention,
- a method to report illicit discharges / connections,
- educational materials for children,
- educational materials for adults,
- resources related to NPDES compliance,
- resources related to administration of SASWA

The website also provides the members with the opportunity to measure the effectiveness of the World Wide Web as a public education venue. The SASWA keeps track of all hits to the website, pages accessed, survey results. The results of the cumulative summary of statistics on the SASWA website for 2004 are available in Appendix E. To view the website and its content go to [www.saswa.org](http://www.saswa.org).

The following members have linked their websites to the SASWA website to provide the public with education related to storm water and stormwater activities:

- Carrollton Township,
- Saginaw Charter Township,
- Saginaw County,
- Saginaw Valley State University,
- Thomas Township.

Additionally, Carrollton Township has developed a stormwater web site on its own home page. This page deals with public education for residents within that community.

Saginaw Valley State University has purchased an educational video dealing with stormwater education that is used for training staff at the university. The video is accompanied by a pamphlet and a short multiple-choice test that is taken by personnel after viewing the video.

Informational Articles developed related to **Activity Number 3** were published in the Fall of 2003 introducing Saginaw Charter and Thomas township residents to NDPEs Phase II stormwater regulations. In the spring of 2004 both community newsletters published an article on the **Top 10 Things you can do to prevent stormwater pollution** and were directed to go to the SASWA website for more information on

pollution prevention. These two township newsletters, The Township Update (Saginaw Charter Township) and Thomas Township Today, are mailed to over 60,000 households and businesses. Currently, the Fall 2004 articles will be mailed, in both townships by the end of October and is titled "Community Involvement in Watershed Planning" and is designed to direct interested members of the general and business public to become involved in watershed planning. It directs volunteers to the SASWA website to provide contact information for the Public Participation Process. This same article will be used as a press release to area newspapers to provide more information to the public. See Appendix F for copies of the community newsletter articles.

Also, contact has been made with TV-5 weather people who have provided two (2) articles related to stormwater education for SASWA. The Saginaw News has published two (2) of these short articles. The News has a circulation of over 50,000 papers in Northeastern Michigan. See Appendix F for the articles.

**Activity number 4** related to watershed education is providing access to the Michigan Water Environment Association's educational CD on watersheds. This CD was just finalized and made available to the public in September of 2004. SASWA is looking at the possibility of purchasing copies for distribution. The draft version of the CD will be replaced on the SASWA website with the finalized copy. The pre and post viewing evaluation questionnaires will be placed on the website to provide documentation of measurable education goals for this CD, when available.

A PowerPoint presentation for watershed education and the water cycle has been developed for use in local schools. SASWA has presented at two (2) school systems, Frankenmuth Schools and Saginaw City Schools and had contact with over 200 students in 2003 / 2004 school year. In 2003 seventy-eight (78) students provided letters of what they learned at these sessions. The letters from the fourth grade students contained terminology or concepts related to erosion, watershed, and the water cycle. In those letters, 14% mention one concept they learned in the session, 44% mentioned two concepts, and 37% mentioned 3 or more concepts. In 2004, 62 fourth grade students provided letters to us, 3% did not mention any concepts or terminology related to erosion, 27% mentioned 1 concept, 40% mentioned 2 concepts, 27% mentioned 3 or more concepts and terminology. The water cycle and watershed class is scheduled for later in October of 2004.

**Activity number 7** to sponsor three (3) informational workshops or seminars for area contractors, developers, builders, landscapers, and engineering firms has been delayed because the educational grant was not awarded to the SASWA. The SASWA will attempt to pursue this in the future.

**Required Element No. 5: Waste Management, Activity number 10:** the SASWA has developed a brochure on proper disposal of sanitary wastewater from recreational vehicles and marine craft. This brochure provides information on proper disposal and locations in Saginaw, Bay, and Midland counties, where sanitary wastes can be

pumped out. Phone numbers, addresses, and any associated fees are provided. This brochure will be printed in 2005 for distribution at area recreational vehicle and boat shows. See Appendix D.

**Activities number 11, 12, and 13** have had their respective messages on watershed hygiene, application, and disposal of pesticides, herbicides, and fertilizers and procedures for residential car washing developed into brochure formats for distribution to the general public. The MWEA watershed education CD also delivers a message related to this information. The SASWA website provides the public with additional links for more education related to these topics.

**Required Element No. 9 related to Illicit Discharges and Connections, Activities 14 and 15** has been covered in the IDEP portion of this report.

**Required Element No. 10 related to Soil Erosion and Sediment Control, Activity number 16.** The SASWA has developed a PowerPoint presentation on Soil Erosion and Sediment Control. It has been utilized to teach in area schools and over 140 fourth grade students have partaken in this program. The students had to write letters to the instructor on what they learned in this program. Over 95% of the letters contained terminology learned in the lesson. Copies of the letters are available upon request.

One final brochure that was distributed throughout all the township offices was a case of the MDEQ brochure, **“When it Rains, It Drains”**, this amounted to about 600 brochures that were handed out. Carrollton Township used the MDEQ brochure as the backdrop on its web site for storm water education.

**c. New Point Sources of Storm Water Discharges:**

The following subdivisions have been approved to discharge storm water in the SASWA watershed area:

<b>Name of Subdivision</b>	<b>Township and Section #</b>	<b>Outlet Drain</b>
Woods Preserve	Saginaw Charter - 7	Kastdorf Drain
Meadowlark Estates	Saginaw Charter – 4	Saginaw Zilwaukee Drain
Pilgrim Hills	Saginaw Charter – 10	Universal Drain
Hartford Estates	Saginaw Charter – 10	Universal Drain
Thomas Crossings	Thomas Township – 36	Trinklein Drain
Mountain View Estates	Thomas Township – 4	Hatch Run & Dice Drains

To date, not all of these storm water conveyance systems have been built, they have been approved through the storm water management plans and ordinances instituted in the respective townships. Once the systems have been built, they will be added to the developing storm water conveyance system GIS layer for the SASWA. The outlets will be positioned appropriately on the developing GIS map with coordinates supplied by GPS during the IDEP program implementation.

**d. Storm Water Pollution Prevention Initiative – This program will not be implemented until April, 2006.**

**e. Other Actions**

The SASWA is participating in the Public Participation Process in Genesee County for the Lower Flint Watershed. The SASWA has had a representative at two public meetings; one in early April of 2004 and the last meeting on May 18, 2004 at Montrose High School. The meetings were not well attended and efforts to get on the mailing list have not been too successful. Contact is being maintained with the Genesee County Drain Commissioner's Surface Water Division to assure compliance for Birch Run Township.

To ensure completeness of this report and to assure that no items were missed the Agendas and Minutes for the Executive Committee and General Board meetings of SASWA are available on our website: [www.saswa.org](http://www.saswa.org). The SASWA has taken the position that the website is the format that they will communicate information from the public meetings.

The annual budgets for the SASWA's fiscal years 2003 and 2004 are in Appendix G. These annual budgets are approved by the municipal membership's governing bodies. Each member has a specified or apportioned share of these costs for the project.

**f. Nested Drainage System Agreements**

The following MS4s have been identified as nested systems:

**Buena Vista School District**

The school district has two sites within the regulated portion of Buena Vista Charter Township. The sites meet the guidelines for school districts to qualify as a nested system. The township and school district have reached an agreement and the school system will be covered by the township's NPDES storm water discharge permit number MIG610167.

**Saginaw Armory MS4, MDMVA, of Buena Vista Charter Township** has submitted NOI coverage under General Permit No. MIS040000. This NPDES permit is a jurisdictional permit. We will notify them during the watershed planning process so they have an opportunity for involvement. Their contact person and address is as follows:

Mr. Gary Hoffmaster  
Environmental Specialist  
Saginaw Armory  
MDMVA  
1800 Outer Drive  
Saginaw, MI 48601

**Saginaw Correctional Facility – Tittabawassee Township**

Originally, this facility was a member of the SASWA and has a NPDES watershed permit issued. In August of 2003, the Administrative Officer, Becky Scherf formally rescinded the correctional facility’s membership in the SASWA. It is my understanding that the Department of Corrections is obtaining a statewide jurisdictional permit to cover facilities in urbanized areas.

**Public Libraries of Saginaw** have been evaluated to determine if they would have to come under the NDPEs regulations. The system is not a county funded system; it is funded by the City of Saginaw and the school district. There are five branches; four of them are in the combined sewer districts of the City of Saginaw they are as follows:

**Hoyt Main Library**

505 Janes Ave.  
Saginaw, MI

**Butman-Fish Library**

1716 Hancock  
Saginaw, MI

**Ruth Brady Wickes Library**

1713 Hess  
Saginaw, MI

**Archer A. Claytor Library**

1410 N. 12<sup>th</sup>  
Saginaw, MI

The remaining branch is located in the municipal complex with Saginaw Charter Township’s administrative, police, fire and public services offices and buildings.

**Zael Memorial Library**

3100 N. Center  
Saginaw, MI

This library uses the separated storm sewer systems that drain the municipal complex and does not control the storm sewer system outlet.



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# APPENDIX A

## **IDEP Spill Response Training**



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## APPENDIX B

### **IDEP & Hotline Brochures**



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# APPENDIX C

## **Spill Response Reports**



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# APPENDIX D

## **Public Education Brochures**



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# APPENDIX E

## Website Statistics



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# APPENDIX F

## Community Newsletters



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# APPENDIX G

## **Annual Budgets**