



Michigan Department of  
Environmental Quality  
[www.michigan.gov/deq](http://www.michigan.gov/deq)

Rick Snyder, Governor  
Dan Wyant, Director

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## ANNUAL REPORT ON ENVIRONMENTAL ASSISTANCE

The Michigan Department of Environmental Quality (DEQ), Office of Environmental Assistance (OEA), strives for sustainable, long-term protection of the environment by providing assistance with environmental compliance, pollution prevention, and environmental education. The OEA offers businesses, schools, and individuals the information they need to meet and surpass Michigan's environmental regulations. The following report summarizes the OEA accomplishments for fiscal year (FY) 2014.

It is with great pleasure that we provide the 2014 Annual Report for the Department of Environmental Quality (DEQ), Office of Environmental Assistance (OEA).

The OEA provides excellent customer service by offering compliance assistance and encouraging stewardship practices that go beyond compliance. This is accomplished in concert with our internal and external partners, through technical assistance and training, incentive and recognition programs, financial assistance, environmental education, and pollution prevention (P2) services.

Our many partnerships with businesses demonstrate that sound environmental practices promote economic development and prosperity. For these reasons, the number of OEA partners continues to increase.

I invite you to review the entire report paying particular attention to the pollution prevention and cost reduction metrics. If you would like to learn more about any OEA programs, please contact the DEQ.

Sincerely,

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For additional details on these activities, visit  
[www.michigan.gov/deqoea](http://www.michigan.gov/deqoea)



# POLLUTION PREVENTION

Protecting Michigan's environment through pollution prevention (P2) is a key element in preserving Michigan's natural resources for future generations. The state's P2 programs are administered by the DEQ in accordance with the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

This legislation entrusts the DEQ with key responsibilities:

- Educating and serving as a catalyst for change within the business community to bring about reductions in the generation of environmental wastes; and
- Providing technical and financial assistance to small businesses and institutions to facilitate P2.

This annual report fulfills the reporting requirements to the Legislature, showcases Michigan's P2 and compliance assistance programs, and highlights the importance of taking care of Michigan's resources.

## Clean Corporate Citizen Program

The Clean Corporate Citizen (C3) Program is a program for businesses, municipalities, and nonprofit organizations demonstrating environmental stewardship and a strong environmental ethic. The C3 Program is built on the concept that C3-designated facilities carry out their environmental protection responsibilities without rigorous oversight and should enjoy greater recognition than those who have not demonstrated environmental leadership. The C3s must have established a dynamic Environmental Management System, implemented P2/sustainable activities, and demonstrated a strong compliance history with their environmental requirements. Participants awarded a C3 designation receive public recognition and increased networking opportunities and may be entitled to certain regulatory benefits. There are currently 137 active C3 participants in the program. Partners engage in a variety of activities including energy efficiency and conservation, waste reduction/elimination, recycling wildlife habitat projects, and community partnering/mentoring.



*C3 Designation Event - O'Keefe Publishing, Inc. dba J.B. Printing*

The C3 Program recognized the following new members along with their accomplishments for the year:

### DTE Gas – Big Rapids Service Center, Big Rapids

- Reduced electrical usage through a service center interior lighting replacement project.
- Increased monitoring of metal recycling activities.
- Re-certified member of the Wildlife Habitat Council.

### DTE Gas – Citizen Gas Fuel Company, Adrian

- Participated in the One-Stop-Box recycling program.
- Installed an energy efficient rubber roofing system on the Operations Building along with upgrades to their HVAC systems.
- Developed, maintained, and certified with the Wildlife Habitat Council for on-site wetlands.

### DTE Gas - Ludington Service Center, Ludington

- Reduced electrical usage through a service center energy assessment and initiatives project.
- Increased monitoring of metal recycling activities.
- Maintained a honey bee colony and hives establishment, as well as a prairie habitat development.

### DTE Gas – Muskegon Service Center, Muskegon

- Reduced electrical usage through a warehouse interior lighting replacement project.
- Increased monitoring of metal recycling activities.
- Maintained and monitored a successful rain garden project.

### DTE Gas – Wealthy Station, Grand Rapids

- Participated in corporate LED recycling.
- Implemented vehicle idle reduction effort saving fuel and reducing emissions.

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# POLLUTION PREVENTION

- Conducted energy efficiency projects including exterior lighting upgrades, interior motion lights, fabrication shop interior lighting, and HVAC improvements.
- Replaced eight diesel fuel street trucks with compressed natural gas.
- Developed, maintained, and certified with the Wildlife Habitat Council for on-site pollinator garden and other habitat enhancements.

## Lansing Board of Water & Light John F. Dye Water Conditioning Plant, Lansing

- Diverted 83.47 tons of material from landfill through recycling efforts.
- Recycled 1,140 pounds of incandescent lights and distributed 1,000 strands of LED holiday lights to 500 households saving 11,000 kWh of electricity.
- Recycled 2,283 lamps and ballasts.
- Reduced gasoline and diesel usage by two percent and four percent, respectively.

## Michigan Automotive Compressor Inc., Parma

- Decreased electrical usage per part manufactured.
- Installed energy efficient lighting.
- Reduced overall water usage by five percent.
- Volunteered through organizations such as American Red Cross Relay for Life, Big Brothers/Big Sisters, March of Dimes, Salvation Army, and Toys for Tots.

## O'Keefe Publishing, Inc. / (dba) J.B. Printing, Kalamazoo

- Recycled paper, printing plates, toner cartridges, shrink wrap, inks and metals.
- Established energy efficiency goals and objectives.
- Explored and used more environmentally friendly cleaning supplies.
- Conducted a workflow analysis to create system efficiencies, saving time and resources during daily operations.
- Developed and implemented a dynamic Environmental Management System.

## Radrick Farms Golf Course, Ann Arbor

- Reduced water usage in the equipment wash station.
- Recycled paper, metals, plastics, and cardboard.
- Implemented no-mow practices, extensively reducing the amount of maintained turfgrass areas.
- Enhanced wildlife habitat and reduced fertilizer/pesticide usage.

## Clean Diesel Grant Program

Since 2008, Michigan has received more than \$3 million in federal clean diesel grant funds under the federal Diesel Emissions Reduction Act, which has been used to clean up diesel engines in fleets throughout Michigan. Overall, the Michigan Clean Diesel Grant Program has affected over 500 vehicles ranging from school buses to long-haul trucks. Activities included replacing old diesel engines with newer, cleaner burning diesel engines and installing technologies that control diesel emissions. Through these actions, more than 285 tons of nitrogen oxide, 37 tons of particulate matter, 89 tons of hydrocarbons, 342 tons of carbon monoxide, and 3,560 tons of carbon dioxide will not be released to the environment over the lifetime of the affected vehicles. This results in cleaner air for Michigan residents.

Diesel exhaust has been linked to health problems, including increased risk of premature mortality, cancer, cardiovascular disease, and asthma, especially in vulnerable populations. In FY 2014, eight total vehicles were replaced taking older, dirtier engines off the road and replacing them with significantly cleaner burning diesel vehicles. Four school buses were replaced by the Lenawee Intermediate School District in partnership with Blissfield Community Schools and Hudson Area Schools. In addition, four heavy duty trucks were replaced in the metro Detroit area in partnership with the grantee, Southwest Detroit Environmental Vision.



*Clean Diesel Grant Bus Replacement - Lenawee Intermediate School District.*

# POLLUTION PREVENTION

## Community P2 Grants

The Community P2 Grant Program assists local governments, businesses, planning agencies, and residents in the process of measurable and innovative waste reduction activities. In FY 2013 the following organizations received funding to assist them in the implementation of community-based drug collection programs into previously unserved and underserved areas of the state of Michigan. The proposed projects included collections utilizing senior living centers, regional rural county agencies, solid waste authorities, and churches.

- Marquette County Solid Waste Management Authority
- Superior Watershed Partnership
- Tip of the Mitt Watershed Council
- Resource Recovery and Recycling Authority of Southwest Oakland County

In 2014 these projects successfully reported disposal of 1,287.5 pounds of unwanted medications and personal care products in an environmentally protective way. This total included 19 pounds of controlled substances. In addition, 75 pounds of sharps were collected, and in Michigan's Upper Peninsula, 60 volunteers served 476 participants at 18 sites across the region.

The Community P2 Grant funds awarded in 2014 will be supporting the Governor's objective to increase residential recycling throughout Michigan. The DEQ will be working closely with the following award recipients to gather baseline data regarding this important statewide initiative.

- Northeast Michigan Council of Governments \$99,900
- Michigan Recycling Coalition \$99,800
- West Michigan Sustainable Business Forum \$50,300

## Economy, Energy & Environment

In 2014 the OEA's P2 and Stewardship Unit leveraged the capacity for outreach to the manufacturing sector during National Pollution Prevention Week using the Michigan Economy, Energy & Environment (E3) Initiative. On September 17, 2014, the OEA partnered with the Western Michigan University's (WMU) College of Engineering and Applied Science to hold the first annual Sustainable Manufacturing Seminar: Leading the Way to Prevention, Profit and the Future.

*"It got me to start thinking outside of the box and it was great to learn of real world successes and challenges."  
2014 Seminar attendee*

In 2014 the Michigan E3 Initiative continued to work with Michigan manufacturers and suppliers to provide on-site technical assistance in the assessment and implementation of P2 and energy efficiency projects. Teams of WMU undergraduate and graduate students gained "real world" experience and assisted West Michigan companies in the process of implementing hazardous materials inventory and diversion, zero waste to landfill strategies, and other environmental projects.

Additional information on the Michigan E3 Initiative can be found at [www.michigan.gov/deq/0,4561,7-135-3585\\_57802\\_62021---,00.html](http://www.michigan.gov/deq/0,4561,7-135-3585_57802_62021---,00.html)



*E3's Sustainable Manufacturing Seminar*

### Aggregated Annual Results for 8 Partner Companies

Categories	2014 P2/E3 Measured Reduction
Solid Waste (pounds reduced)	446,428
GHG (metric tons of carbon dioxide equivalents [MTCO2 e] reduced)	332
kWh (electricity conserved)	61,791
Dollars Saved (cost avoidance through P2/E3 efforts)	118,651
Hazardous Materials (pounds diverted)	20,319
Water (gallons conserved)	709,487
Btu (natural gas reduced)	5,692,000

# POLLUTION PREVENTION

## Green Chemistry

The Michigan Green Chemistry Program is a state effort led by the DEQ to advance the use of the green chemistry principles in Michigan. The program is supported by the Michigan Green Chemistry Roundtable, a multi-sector advisory group, which continues to advise and contribute on a number of initiatives.

The Green Chemistry Program hosted the fifth annual GreenUp: Michigan Green Chemistry and Engineering Conference on the campus of Grand Valley State University in Grand Rapids. The theme of the conference was “Designing a Sustainable Michigan,” providing attendees a chance to explore research and application examples and look for opportunities to incorporate green chemistry into education. The fifth annual Michigan Green Chemistry Governor’s Awards were given to promote excellence in innovation, economic development, and public health risk reduction by businesses and institutions, with a focus on the benefit to Michigan. Honored at the GreenUp conference were the 2013 Michigan Green Chemistry Governor’s Award winners:

- Stephen Maldonado, Ph.D., University of Michigan
- Office of Campus Sustainability, University of Michigan

In addition to the GreenUp Conference and Michigan Green Chemistry Governor’s Awards, the Green Chemistry Program had the following accomplishments in FY 2014:

- The Michigan Green Chemistry Clearinghouse continued to provide information with notable initiatives, including monthly webinars and significant education efforts to develop toxicology training for chemistry students and train K-12 teachers to incorporate green chemistry in the classroom.
- Michigan Green Chemistry Roundtable members provided support to the national Green Chemistry Commitment, developed and piloted the Green Chemistry Guide for Business, and held a collaborative webinar “Greener Products and Processes in the Auto Industry.”
- More than 50 attendees shared information on best practices and approaches for greener laboratories at the second Michigan Green Labs Initiative workshop.

*“GreenUp is a vital event for us. I am convinced – more than ever – of the fundamental importance of green chemistry and the role it can play in Michigan, both economically, and more importantly, for the common good of all.”*  
2013 GreenUp attendee



Winners of the fifth annual Michigan Green Chemistry Governor’s Awards - Academic: Stephen Maldonado, Ph.D., University of Michigan; Education: Office of Campus Sustainability, University of Michigan

## Mercury P2

For decades, mercury has been a pollutant of concern due to its toxic and bioaccumulative properties. The DEQ has several programs that reduce mercury discharges and emissions in order to protect the health of residents as well as the fisheries and tourism industries. The significant P2 efforts to reduce mercury impacts in FY 2014 include the following:

- Michigan Energy Options continues to recycle mercury thermostats removed during energy efficiency improvements and community demolition efforts. The state, with nearly 220 collection sites, has an opportunity to offer free collections throughout Michigan. The total number of thermostats recycled through September 2014 is 46,668, which equates to approximately 278 pounds of elemental mercury.
- An ongoing grant award with the Michigan Department of Agriculture and Rural Development’s Clean Sweep Program resulted in nearly 1,000 pounds of mercury-containing devices being collected in FY 2014. This represents the collection and removal (recycling) of several hundred pounds of elemental mercury from local residential, school, and business waste streams.



Mercury Collection Program Flyer

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# POLLUTION PREVENTION

- A total of nearly 15,000 mercury auto switches, equating to approximately 35 pounds of mercury, were recycled in FY 2014. There are currently over 300 mercury auto switch collection sites located throughout Michigan.
- Through a contract funded by the Great Lakes Restoration Initiative, The Environmental Quality Company has been conducting a mercury bucket collection program that is scheduled to end on September 30, 2015, or when funding has been exhausted. An aggressive marketing campaign (i.e., radio, newspaper, and industry partners) is ongoing, and orders are being received for collection buckets. During the six-month period of activity ending September 2014, the collection program was responsible for recycling a total of nearly 4,009 mercury-containing devices containing over 652 pounds of mercury.

## Michigan Business P2 Partnership

The Michigan Business Pollution Prevention Partnership (MBP3) is a voluntary program open to all Michigan organizations interested in initiating or expanding P2 practices and receiving recognition for these efforts.

*“Participation in MBP3 assists in keeping focus on continuous improvement activities.” – Pfizer, Inc. Kalamazoo site*

- Estimated combined cost savings gained via the P2 results reported by MBP3 partners during calendar year 2013 was \$79,563,005 (Cost factor source: U.S. Environmental Protection Agency (U.S. EPA) P2 Cost Calculator and guidelines).
- MBP3 added 11 new facilities to its membership in FY 2014 who committed to develop P2 goals and report results annually.
- P2 news and opportunities were disseminated to partners via email and listserv, and presentations were given at workshops to inform and engage potential new partners.

**P2 Results Reported by Partners in Terms of  
Greenhouse Gas Reductions:  
Metric Tons of CO<sub>2</sub> Equivalents (MTCO<sub>2</sub>Eq) Reduced (FY 2013)**

Reduction	MTCO <sub>2</sub> Eq Reduced	Equivalency
<b>Energy Use</b> 84,674,818 Kilowatt hours	58,388	The annual greenhouse gas emissions from 12,292 passenger vehicles.
<b>Water Use</b> 41,382,493 Gallons	116	The CO <sub>2</sub> emissions from 13,053 gallons of gasoline consumed.
<b>Solid Waste Diverted from the Landfill</b> 1,921,410,256 Pounds	2,680,367	The CO <sub>2</sub> emissions from burning 244,559 railcars worth of coal.

(Source: U.S. EPA GHG Equivalencies Conversion Tool)

## Neighborhood Environmental Partners Awards Program

The Neighborhood Environmental Partners (NEP) Awards Program was developed by the DEQ to recognize facilities and their community partners who have worked together on environmental projects to improve the local environment in their communities.

In FY 2014 DEQ Director Dan Wyant awarded twelve facilities in Michigan the NEP Award for their outstanding commitment to community environment projects. Award ceremonies were held in Zeeland, Dearborn, and Lansing this year.

The twelve facilities that received an award were:

- ADAC Automotive
- AWTEC
- Consumers Energy J. R. Whiting Plant
- DeWitt Barrels
- Ford Motor Company
- General Motors LLC

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# POLLUTION PREVENTION

- Haworth
- Herman Miller Incorporated
- Holland Board of Public Works
- ITC Holdings Corporation
- United States Army Garrison-Detroit Arsenal-Environmental Division
- World Medical Relief

Examples of FY 2014 projects include:

- Earth Day Activities (including plant tours and environmental presentations at local schools).
- Water quality sampling projects with local schools and watershed groups.
- Habitat creation and restoration projects (examples: planting native plant species, creation of butterfly gardens, building bird boxes, maintaining nature trails, and camp and park restoration projects).
- Shoreline Cleanup and Adopt a Highway projects.
- Electronic and household waste collections and recycling projects.



Director Wyant presents awards at the 2014 NEP Award Ceremony (Zeeland, Michigan)

To date, 94 awards have been presented to facilities and their community partners since program inception in 2004.

## Retired Engineer Technical Assistance Program

The Retired Engineer Technical Assistance Program (RETAP) provides on-site P2 assessments to small businesses and institutions in Michigan. Assessments are performed by teams of retired engineers and are always free, voluntary, confidential, and non-regulatory. Each assessment includes a written report containing specific recommendations to save money, eliminate waste, reduce costly waste disposal and treatment, and improve process and energy efficiencies.

In FY 2014 the RETAP achieved a major milestone in completing its 20th year of voluntary P2 technical assistance. Since 1994, the RETAP has completed nearly 1,900 assessments, helping to reduce waste disposal in Michigan by tens of millions of pounds. In recognition of this success, and under Governor Rick Snyder's direction, the DEQ is expanding the RETAP to provide more than 120 assessments per year. The RETAP continues to enhance program services through a \$106,000 P2 grant received from the U.S. EPA last year, and a second \$84,000 P2 grant received this year.



Current RETAP membership with awards received by the program.

In FY 2014 the RETAP completed 62 assessments encompassing 93 buildings and identifying nearly \$4.6 million in potential cost savings or an average of \$74,000 saved per RETAP assessment (see table below). The RETAP engineers provided 318 hours of additional P2 assistance for small businesses and government facilities, which identified nearly \$56,000 in potential savings.

### RETAP Completed 62 P2 Assessments in FY 2014

Reductions	Amount
Operating Costs	4.6 million Dollars
Waste Disposal	9.8 million Pounds
Water Usage	6.6 million Gallons
Electricity Usage	25.5 million kWh
Natural Gas Usage	1.6 million CCF
CO <sub>2</sub> Emissions (equivalents)	58.6 million Pounds

“We have long encouraged small businesses to take advantage of the free pollution prevention and energy efficiency assistance offered by the RETAP. Small businesses can readily access the experience of nearly 50 retired engineers active in the RETAP to identify opportunities for improvement.”  
 Rob Fowler, President and CEO  
 Small Business Association of Michigan

# ENVIRONMENTAL COMPLIANCE ASSISTANCE

## Small Business P2 Loan Program

All across Michigan, small businesses are taking advantage of the DEQ's Small Business Pollution Prevention Loan (P2 Loan) Program to assist them in deploying preferred environmental technologies and practices. Established under the 1998 Clean Michigan Initiative Bond approved by voters, the P2 Loan Program has invested over \$6.8 million in 68 loans to small businesses. Any business that employs 500 or fewer people, is independently owned or operated, and not dominant in its field is eligible to apply for a low interest loan.

In FY 2014 over \$275,000 was awarded in loans to the following P2 Loan Program participants:

- North Bridge Chiropractic and their local lender, Chiropractic Federal Credit Union
- Sarah Palmer DDS, P.C., and their local lender, Chemical Bank
- Winter Veterinarian and their local lender, Chemical Bank
- Drs. Delaney, Plunkett, Ralstrom, Makowski, Thanasas, Ker, and Associates, P.C., and their local lender, Comerica Bank

## ENVIRONMENTAL COMPLIANCE ASSISTANCE

The OEA's Compliance Assistance Program offers multi-media environmental assistance to businesses, industry, governmental officials, and the general public on all major DEQ programs.

## Customer Service Program/Survey

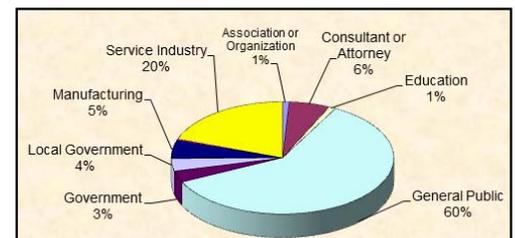
To gain a better understanding of how the DEQ is meeting customer needs, the DEQ developed a Customer Service Program. As part of this program, the DEQ distributed a customer satisfaction survey and developed two publications to assist the regulated community with inspections – "What to Expect from an Environmental Compliance Inspection" and "Environmental Inspections: Rights and Responsibilities." As mandated by the Michigan Legislature, the DEQ is reporting on the program results and outcomes.

- Ninety-eight percent of inspected businesses that completed the survey reported their DEQ inspector was professional, courteous, and adequately answered their questions during the inspection.
- Ninety-six percent of survey responders reported that their DEQ inspector adequately explained their initial finding to them at the close of the inspection.

The complete survey results can be viewed at [www.michigan.gov/deqsurveys](http://www.michigan.gov/deqsurveys). Through this program, the DEQ can assess the services it provides, make improvements where needed, and ultimately increase customer satisfaction.

## Environmental Assistance Center

One of the many services offered by the DEQ is the Environmental Assistance Center (EAC). The EAC is a call center that provides businesses, individuals, and communities a single point of access to all DEQ programs. Callers may contact the EAC toll free at 800-662-9278 during business hours to receive fast, direct, one-on-one assistance from the OEA assistance staff. Approximately half of the incoming inquiries are resolved by OEA staff, while the other half are routed to the DEQ regulatory staff or agencies like the Department of Natural Resources or U.S. EPA.



Graph of Sector Inquiries FY 2014

In FY 2014, the EAC handled 17,026 inquiries, 99 percent of which were resolved within one business day. The distribution is as follows: 60 percent were from the general public, 20 percent were from service industries, six percent from consultants or attorneys, five percent from manufacturing industries, four percent from local government, three percent from government, one percent from associations or organizations, and one percent from education. The customers assisted by the EAC routinely return satisfaction surveys with complimentary comments.

# ENVIRONMENTAL COMPLIANCE ASSISTANCE

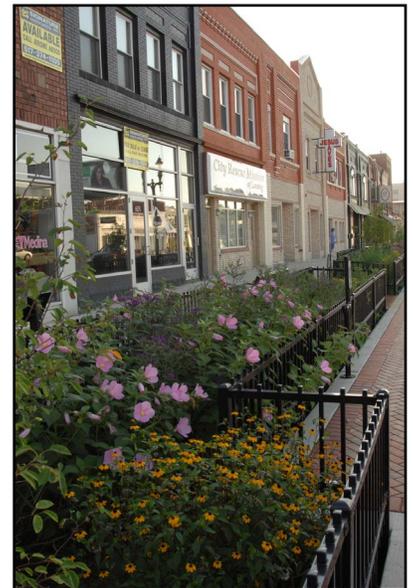
## Environmental Audit Privilege and Immunity

The Environmental Audit Privilege and Immunity Law was created in 1997 to reduce the fear of disclosure of information regarding violations by businesses and municipalities to the DEQ that may lead to enforcement and penalties. It provides incentives for businesses to perform environmental audits and promptly report and correct violations, leading to increased compliance. Obtaining privilege involves filing a Notice of Intent to Perform an Environmental Audit prior to performing the audit. Immunity provisions can be sought later by promptly filing a Voluntary Disclosure and correcting the observed violations. In FY 2014, 54 Notices of Intent to perform an audit and 15 Voluntary Disclosures were filed in efforts to voluntarily comply with environmental regulations.

## Green Infrastructure

In 2014 the OEA took a major role to promote green infrastructure in Michigan. This included reaching out to municipalities and stakeholders, coordinating DEQ programs to provide a more unified approach, as well as building partnerships at the local and grassroots level. More specifically, the OEA accomplished the following activities:

- Provided Green Infrastructure expertise on the Sense of Place Council's Workgroup on Recreation, Natural Resources, and Heritage.
- Partnered with regional special interest groups to plan and coordinate a regional green infrastructure conference for northern Michigan.
- Launched the new GovDelivery site for Green Infrastructure News.
- Created green infrastructure reference guides for funding and technical resources.
- Developed new initiatives within the boating industry and the Clean Marina Program to provide training focused on stormwater management and green infrastructure at marinas.
- Participated in multiple workgroups, such as:
  - ✓ Southeast Michigan Green Infrastructure Team
  - ✓ Huron River Watershed Council's Green Infrastructure Forums
  - ✓ An ad hoc DEQ workgroup to incentivize Green Infrastructure in State Grant and Loan programs



*Green Infrastructure - Michigan Avenue Bioretention, Lansing, Michigan*

The OEA will continue efforts to establish the DEQ as a leader in Green Infrastructure expertise – a leader that local governments and commerce will follow and seek for guidance.

## Permit Coordination

The DEQ administers more than 65 permits, licenses, and professional certifications. Determining which of these is required for a project or activity can be challenging, especially for a new or expanding business. The OEA made the process simpler, by collaborating with the Michigan Economic Development Corporation and other state agencies in creating a new way to guide businesses through the myriad of state agency requirements - "Michigan Business Portal." The Portal ([www.michigan.gov/business](http://www.michigan.gov/business)) is taking the place of what used to be known as Michigan Business One Stop and will continue to assist the user to determine the permits, licenses, and certifications needed in order to conduct business within the state of Michigan. During FY 2014, the OEA helped numerous businesses to determine the environmental regulations that applied to their prospective business operations. The OEA continues to serve on several workgroups to provide ongoing improvements, in order to increase efficiencies and convenience for new, existing, and expanding businesses in Michigan. The OEA also makes the process easier to understand, by creating DEQ-specific permit information checklists available at [www.michigan.gov/deqpermits](http://www.michigan.gov/deqpermits).

# ENVIRONMENTAL COMPLIANCE ASSISTANCE

## Superfund Amendments and Reauthorization Act (SARA) Title III

The Michigan SARA Title III Program implements the reporting requirements of the federal Emergency Planning and Community Right-to-Know Act. At the end of FY 2014, there were 7,349 facilities in Michigan's online database for which 6,121 annual hazardous chemical inventory reports and 420 revisions were submitted and 518 current year updated reports were submitted. The SARA Program staff processed 32 written follow-up hazardous chemical release reports. In addition to responding to numerous SARA Program inquiries, the SARA Program staff provided training at five conferences during the year, published an updated SARA guidebook, and maintained current information on the Web pages specific to SARA Title III, Release Reporting, and Emergency Planning.

### Publications

The OEA publishes regulatory guidance materials, both online and hard copy, in coordination with expert program staff. These products provide independent, immediate access to compliance assistance resources. The OEA publications range from Frequently Asked Questions and brochures to more extensive fact sheets, subject area guidance documents, and comprehensive guidebooks like the Michigan Guide to Environmental, Health, and Safety Regulations. In FY 2014 OEA staff published several new or updated compliance assistance publications on a variety of topics, some of which included:



- Michigan Guide to Environmental, Health, and Safety Regulations (8th Edition)
- Michigan Separate Storm Sewer System (MS4) Compliance Assistance Guide – Post Construction Stormwater Runoff
- MS4 Compliance Assistance Guide – Illicit Discharge Elimination
- Green Infrastructure Funding Guide
- Green Infrastructure Reference Guide
- Cross Connections Brochure Update
- Visual Assessments for Industrial Stormwater

The OEA staff also published a biweekly DEQ Environmental Calendar (3,634 subscribers) and quarterly Environmental Assistance Bulletin (2,122 subscribers) highlighting decisions and actions before the DEQ as well as training events and outreach materials. Each edition of the Environmental Assistance Bulletin included a Compliance Assistance Corner article providing regulatory guidance on a current topic of interest to the regulated community.

### Workshops, Webinars, and Online Training

The OEA oversees scheduling, logistics, registration, and speaker coordination to deliver training events that educate businesses, municipalities, institutions, and the general public on environmental requirements, P2 practices, and other topics related to the DEQ's mission. These training events include live workshops, conferences, and webinars, as well as recorded videos and tutorials that can be accessed by users at any time.

In FY 2014 the OEA collaborated with programs throughout the DEQ to coordinate 33 workshop and conference events held throughout the state. Over 3,200 businesses, municipalities, institutions, and environmental professionals



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# ENVIRONMENTAL COMPLIANCE ASSISTANCE

participated at these events. The largest event was the Michigan Environmental Compliance Conference held at three locations throughout the state with 853 attendees. The DEQ also hosted a variety of other events that included topics such green infrastructure, waste characterization, fugitive dust, and sustainable manufacturing.

## FY 2014 Workshops, Conferences, and Seminars

DATE	EVENT	DATE	EVENT
10/9/2013	Stormwater, Asset Management and Wastewater Seminar; Lansing	April 21-22, 2014	Drinking Water Local Health Department Conference; Bay City
10/26/2013	2013 Michigan Green Chemistry and Engineering Conference; Grand Rapids	May 8-9, 2014	Michigan Green Infrastructure Conference - Protecting Water Resources and Promoting Economic Development; Lansing
11/4/2013	Air Permit to Install Application Workshop; Lansing	1/20/2014	Air Permit to Install Application Workshop; Lansing
October-November 2013	Air Permitting: Prevention of Significant Deterioration (PSD) Workshops; Grand Rapids and Livonia	May-June 2014	2014 Michigan Environmental Compliance Conference; Traverse City, Grand Rapids, and Troy
December 2013	Petroleum Vapor Intrusion Workshops; Grand Rapids and Ypsilanti	June 2014	Waste Characterization Workshop Series; Troy and Kalamazoo
January-February 2014	Introduction to the Michigan Air Emission Reporting System Workshops; Gaylord, Kalamazoo, Troy, and Lansing	8/12/2014	Green Labs Workshop; East Lansing
January-February 2014	SARA Title III Tier Two Workshop Series; Gaylord, Kalamazoo, Troy, Bay City, and Lansing	9/3/2014	Air Permit to Install Application Workshop; Lansing
1/14/2014	Air Permit to Install Application Workshop; Lansing	9/11/2014	U.P. Solid Waste Landfill Operator Training; Gladstone
2/6/2014	Upper Peninsula Solid Waste Forum; Marquette	9/17/2014	Sustainable Manufacturing Seminar; Kalamazoo
March 2014	Fugitive Dust Management Workshops; Grand Rapids and Livonia		

The OEA coordinated and hosted 23 webinars in FY 2014. The webinars ranged in scope from soil erosion and sedimentation control requirements to hazardous waste management. The 23 live webinar broadcasts educated 2,857 people throughout Michigan and the United States. Recordings of these webinars have been viewed by 799 people and are posted at [www.michigan.gov/deqworkshops](http://www.michigan.gov/deqworkshops).

## FY 2014 Webinars

DATE	WEBINAR TITLE	DATE	WEBINAR TITLE
10/15/2013	Nonpoint Source Program - Stormwater, Asset Management and Wastewater Webinar	1/21/2014	Hazardous Waste Generator Recordkeeping & Inspection
12/17/2013	Road Right of Way Alternate Institutional Control Webinar	1/21/2014	DEQ Staff Webinar - Navigating the Michigan Environmental Mapper
12/19/2013	Introduction to the DEQ Soil Erosion and Sedimentation Control Program Webinar	2/13/2014	Grants Administration Training Webinar - Coastal Zone Management Program
1/10/2014	Waste Characterization & Generator Status	2/19/2014	Greenhouse Gas Accounting and Product Life Cycle Management
1/14/2014	Hazardous Waste Generator Accumulation, Storage, and Labeling Requirements	2/27/2014	DEQ Staff Webinar - What is Site Registry?
1/16/2014	Michigan Air Emissions Reporting System Review Webinar	4/15/2014	DEQ Staff Webinar - Expanded Environmental Remediation Contract
1/16/2014	DEQ Staff Webinar - Analysis of Wastewater for Total Phosphorus	4/17/2014	DEQ Staff Webinar - Discretionary Contract

(continued on next page)

# ENVIRONMENTAL EDUCATION

DATE	WEBINAR TITLE	DATE	WEBINAR TITLE
4/19/2014	Act 381 Reporting Requirements and Brownfield Program Update	7/18/2014	CMI Water Quality Monitoring Grant
4/23/2014	DEQ Staff Webinar - Professional Services Contract	7/31/2014	DEQ Staff Webinar - Boiler NESHAP
5/18/2014	Understanding Michigan's Water Quality	8/5/2014	Nonpoint Source Program (NPS) Grants Webinar
6/11/2014	DEQ Staff Webinar - Aquatic Invasive Species Identification	9/9/2014	NPS Grant Proposal Webinar
6/25/2014	Wetland Mitigation Banking Fund Program		

## ENVIRONMENTAL EDUCATION

Environmental Education helps Michigan citizens understand the connection of people and living things to the air, land, and water and how these systems relate to the global environment. These connections lead to informed decisions on environmental protection and natural resource conservation. The DEQ Environmental Education strategy is as follows:

1. Integrate environmental education curriculum support into Michigan schools at the middle school level to ensure students have early training and exposure to environmental concepts.
2. Build and maintain a strong network of partnerships to leverage and support environmental education at all levels of education.
3. Coordinate a vibrant internship program to provide college-level exposures to environmental work.

Environmental Education FY 2014 highlights include:

- The Michigan Environmental Education Curriculum Support (MEECS), a science-based curriculum impacting grades 3-9, includes units on ecosystems and biodiversity, land use, water quality, air quality, energy resources, climate change, and outdoor education supplement. The MEECS was originally published in 2006. During FY 2013, the second edition, including the new units, was published. Nearly 1,000 educators attended a second edition MEECS workshop. Workshops have been conducted for nearly 4,600 educators since the MEECS was first published.
- Working with a myriad of colleges and programs, the DEQ facilitated 104 internships during FY 2014, a 14.3 percent increase over FY 2013, the second consecutive year of program expansion.
- As part of our environmental education of youth, the DEQ celebrated Earth Day with nearly 2,200 students, teachers, and guests.



*Children's choir singing in front of Earth Day 2014 poster contest submissions.*

The DEQ will not discriminate against any individual or group on the basis of race, sex, religion, age, national origin, color, marital status, disability, political beliefs, height, weight, genetic information or sexual orientation. Questions or concerns should be directed to the Quality of Life - Office of Human Resources, P.O. Box 30473, Lansing, MI 48909-7973.



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