

SUMMARY ENVIRONMENTAL ACTIVITY REPORT

November 2015 (*updates in italics*)

<u>Project/Activity</u>	<u>Description</u>	<u>Status</u>
Portage City Landfill	Ongoing groundwater monitoring of former municipal landfill.	-Beginning in 1991, South Westnedge Park (landfill) has been monitored for on-site and off-site contamination. On July 23, 2013, City Council approved a three-year contract with American Hydrogeologic Corporation (AHC) to perform annual groundwater sampling. The site groundwater data will continue to be monitored to confirm continuation of the natural attenuation process. General groundwater quality continues to improve, but site will require monitoring for the foreseeable future. Initial groundwater and methane results indicate no off-site impact. AHC currently compiling MDEQ sampling requirement costs necessary for closure at the former landfill site. Weekly methane sampling is continuing on-site to collect base line data. AHC is completing the installation of private methane detection devices at several adjacent properties. Soil boring installation was completed on May 28, 2014. Current methane readings have been below detection levels. The 2 <sup>nd</sup> year of AHC's contract is underway with annual testing ongoing.
Site Inspection/Development Project Review	Review of existing business & industries and review of proposed business and industrial development projects for environmental protection purposes and/or building plans completed.	-Coordination with property owners and City or State agencies ongoing. <i>-Review of 1 site/building plan and/or plats completed in November 2015.</i>
Sewer Connection Program	Groundwater protection program requiring residential/business hookup to the sanitary sewer where available.	<i>-Sanitary sewer hookup permits issued in November 2015: 7 residential; 0 commercial.</i>
West Lake Management Program	Special assessment district designed to maintain/improve lake conditions. Special emphasis on weed control and non-point source pollution reduction.	-Five Year Lake Management Assessment District process was approved by City Council. The West Lake Improvement association has completed a five year plan for a new special assessment district. Special assessment process for 2015-2019 began on August 26, 2014. Resolution No. 5 completing the assessment was adopted October 21, 2014. Year-end report by the consultant is complete. The Association has selected to use

Restorative Lake Sciences, LLC for consulting services for 2015. Treatment application completed in mid-June. Follow-up inspection of treatment will be done by Restorative Lake. The 2015 weed treatment bids were received on February 24, 2015. City Council approved weed treatment contract with Professional Lake Management Company on April 10, 2015. Weed treatment was completed in June. The Association has requested to renew the contract with Restorative Lake Science for 2016.

Retention Basin  
Sampling Program  
(Groundwater  
Elevation)

Investigation regarding potential impact of retention basins on groundwater levels.

-Historical monitoring continues to show minor impacts at most basins. From 1993 through 2009 the monitoring program showed stable groundwater impacts due to storm water infiltration. Alternative road salt practices continue to be considered and evaluated. Bids were received for a new four year program on April 16, 2014. The low bidder, Nova Consultants, was awarded a four-year contract by City Council on April 29, 2014. Monitoring performed in October 2014 and July 2015. Monthly sampling at two retention basins continues. Current findings show groundwater levels of approximately the same as 2014 levels.

Wellhead Protection  
Program (WHPP)

Development of program to protect City well fields and surrounding area from contamination resulting from improper land use.

-Current Wellhead Protection was approved March, 2001. Staff has met internally to discuss the future needs to update the plan pending grant opportunities. Staff participated in a MDEQ Water Supply Emergency planning roundtable on June 10, 2013. Update of the program has been initiated as part of the Water Reliability Study in conjunction with Fishbeck, Thompson, Carr & Huber update work currently underway. Wellfield delineation completed. Engineering intern has completed contamination source inventory. Final report preparation was submitted to the Michigan Department of Environmental Quality for review and approval. Letter of approval received from MDEQ on June 15, 2015. Program implementation is ongoing. Staff is working on annual report summary to MDEQ.

Leaf Compost  
Monitoring Program

Monitoring and analysis of groundwater at the new Oakland Drive Leaf Compost site.

- City Council awarded contract on August 21, 2001 to Soil & Materials Engineers for monitoring and analysis of groundwater impact of the new compost operation. Drilling was completed in October 2001 and first sampling cycle was completed in February 2002. Semi-annual sampling was performed from 2002 to 2008 in June and January. Sampling and analysis results continue to show negligible groundwater impacts from the

leaf composting. Sampling schedule was reduced to annual sampling in 2009 with results showing continued minor impact on groundwater quality. Sampling completed in June 2015, with report submitted. No significant change in groundwater impacts.

National Pollution  
Discharge Elimination  
System (NPDES)  
Permit Implementation

Five year plan to implement the  
current NPDES stormwater permit.

-Received NPDES general permit on August 15, 2001. Renewal Application submission was made to MDEQ on March 7, 2003. New permit received in 2004 mandates involvement in several county watershed groups. City staff completed the submission of a Storm Water Pollution Prevention Initiative (SWIPPI) as required by NPDES permit. New certificate of coverage permit was issued by MDEQ on September 30, 2009. New permit covers a 5 year timeframe with first work item (updating the Public Participation Plan) completed December 11, 2009. Received a notice from MDEQ rescinding the 2008 permit due to a recent court case ruling. MDEQ reinstated the 2003 permit for implementation. Information on new permit requirement was received in February 2011. MDEQ expected to issue new permit in 2014. MDEQ scheduled an audit of the program on July 12, 2012. Audit completed with satisfactory results. City website updated in February to provide education of Illicit Storm Water Discharge. Program implementation is ongoing. Annual 2012-13 report was submitted on December 24, 2013. Comments received back have been reviewed by staff and response submitted to MDEQ. MDEQ concurred with city staff response. New permit application process announced in November 2014. New permit application was submitted in March 2015. Implementation is ongoing.

National Pollution  
Discharge Elimination  
System (NPDES)  
Permit Implementation

Kalamazoo River Mainstream  
Watershed Management Plan

-First meeting was held September 17, 2004. Proposals for completing the watershed plan were received by Kalamazoo County on September 15, 2005 and a contract awarded to Kieser & Associates in November 2005. Draft watershed plan submitted to MDEQ on December 30, 2005. Review comments received from MDEQ and revised watershed plan due in December 2006. A letter not to revise the Watershed Plan was submitted to the MDEQ on March 17, 2008. Public participation plan update submitted to MDEQ on November 24, 2009. Kalamazoo River Watershed council completed a watershed update in November, 2011. No new developments.

Portage River Watershed  
Management Plan

-Public participation plan submitted June 28, 2004. Proposals for a Watershed Management Plan were received by the Kalamazoo County Road Commission and a contract awarded to the Kalamazoo County Conservation Service in November 2005. Draft watershed plan submitted to MDEQ on December 30, 2005. A letter not to revise the Watershed Plan was submitted to the MDEQ on March 17, 2008. Public participation plan update submitted to MDEQ on November 24, 2009. Based upon MDEQ comments, the plan was revised and resubmitted on December 21, 2009. Interest has been raised by local conservation groups to update the Watershed Plan using grant funds. Grant application submitted by Kalamazoo and Calhoun County Conservation District to update the Watershed Plan in 2012. Grant for watershed update was awarded to Calhoun County Conversation District. First kick-off meeting held December 13, 2012 to introduce working partners and information gathering. A meeting was held on March 12, 2013 to discuss the designated uses of the Portage River/Little Portage Creek watershed, the total maximum daily load of E-coli from samples taken and a review of community ordinances and policies that help protect the Watershed. Meeting held on June 11, 2013 to discuss identified water quality problems in the watershed. Meeting held on December 11, 2013 to inform stakeholders of progress on data collection. Canoe trip inspection was held on September 13, 2014. No new developments.

Plan to implement and maintain an  
Illicit Discharge Elimination Program  
(IDEP) Storm Sewer Outfall Testing.

-On February 19, 2002, City Council approved a new ordinance as required by the NPDES permit titled "Storm Water Illicit Discharges and Connections." Program implementation is ongoing. Continued outfall sampling is required by permit and will be budgeted accordingly. IDEP program was updated for submittal to MDEQ on June 25, 2010, and part of the SWIPPI. Completed an area-wide brochure to educate the public on Illicit Storm Water Discharges in conjunction with the Kalamazoo County Drain Commissioner. On April 29, 2014 City Council awarded a contract to Nova Consultants, Inc., to perform annual investigations of storm outfalls and investigate all outfalls on a four-year cycle. Investigations scheduled for 2014 were completed in July with summary report received. Report will be submitted to MDEQ as part of the annual report. Next report due in December 2015.

Garden Lane Arsenic Removal Facility	<i>Native Prairie Restoration</i>	Staff currently working with the Environmental Board on informative signs and long-term maintenance plans for the native planting landscape design in front of the Garden Lane Treatment Plant. New informational signs are complete and maintenance is ongoing. Native prairie burn is being planned for 2016.
Environmental Incident/Spill Clean Up Notification	Environmental Protection Program to assist Portage Police/Fire Departments with spill containment and spill cleanup.	Emergency spill response contract for 2014-15 with Terra Contracting has been renewed. <i>The number of environmental incident/spill investigations performed in November – 0. Number of environmental cleanups in November– 0.</i>
Southwest Michigan Regional Sustainability Covenant	Collaborative effort with local government, academic, and other stakeholders to lead toward environmental, economic and social sustainability.	On May 12, 2009, City Council approved the Southwest Michigan Regional Sustainability Covenant. A sustainability work session was held April 14, 2010, to review elements of the covenant in cooperation with the City of Kalamazoo and the City of Battle Creek. A grant application was made to MDEQ for a greenhouse gas inventory study of the area. Notice received July 15, 2010 that the grant application was not successful. City staff attended a September 10, 2010 meeting in Grand Rapids to discuss sustainable economic, environment, and society programs. No new developments.