

Village of Concord

Stormwater Plan

In Fulfillment of the

**Kalamazoo River/Lake Allegan Watershed Cooperative Agreement
for the Reduction of Phosphorus Loading, August 19, 2011**

Revised March 26, 2015

Adopted

[April 8, 2015]

Facility Information

Name of Facility: Village of Concord Wastewaste Sewage Lagoon

Facility Contact:

Name: Jason Blossom
Title: Department of Public Works Supervisor
Phone: 517-524-8534
Email: concordvillage@wowway.biz
Address: Village Hall
110 Hanover Street
PO Box 306
Concord, MI 49237

Owner: Village of Concord

Operators: Jason Blossom
Kevin Thomas

Permit Number: MIG 580003

Receiving Waters: Kalamazoo River

Emergency Contact: Jason Blossom

Emergency Phone: 517-812-7556

PURPOSE

The purpose of the Village of Concord's stormwater plan is to implement activities that will prevent excess phosphorus and sediment from entering the Kalamazoo River and other important local water resources. The plan covers pollution prevention from regular village operations, such as public works, wastewater treatment, and parks; public education; land development; and illicit discharges. It has been developed as required under Part I, Section A, paragraph h of the Michigan National Pollutant Discharge Elimination System (NPDES) general permit for reduction of the total phosphorus in the Kalamazoo River/Lake Allegan Watershed.

BACKGROUND

Point source (PS) facilities within the Kalamazoo River watershed have operated under a phosphorus total maximum daily load (TMDL). The TMDL caps the amount of pollutant loading each facility can discharge to a particular water body. In the case of Lake Allegan, PSs operate collectively under an aggregate with the Michigan Department of Environmental Quality (MDEQ). In lieu of individual PS permits with reduced phosphorus limits, PSs have agreed to work cooperatively with other watershed partners to reduce non-point sources (NPS) of phosphorus to the river.

Concord has two stormwater outfalls that discharge to the Kalamazoo River within the village limits. These discharges fall under the NPS load allocation in the TMDL which requires a 50% reduction in phosphorus loading from the 1998 baseline year. A map of the storm sewer system catch basin inlets and outfalls is included in Attachment A. The map shows that the majority of catch basins are located at the center of the village in blocks with residences and businesses. Only a small portion of these blocks have curbs. Nearly all properties within the village are connected to sanitary sewer and the public water supply.

OBJECTIVE

The goal of the stormwater plan is to make progress toward the NPS phosphorus reduction goal. We will work to accomplish this goal by continuing good housekeeping and pollution prevention activities outlined in this plan as well as public education on ways our residents and business owners can help reduce excess phosphorus from entering the river.

SECTIONS

This plan covers four required categories:

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| 1) Public Education | Page 5 |
| 2) Illicit Discharges | Page 6 |
| 3) Good Housekeeping and Pollution Prevention | Page 7 |
| 4) Post-Construction Stormwater Controls | Page 8 |

REPORTING

The following tables outline the activities related to stormwater management and nutrient and sediment control that the village will implement each year according to the schedule. Progress made toward activities and outcomes described in the plan will be reported each year in our TMDL Point Source Annual Report. We will provide an update on the status of planned activities in table format.

Our community is working to adopt a resolution requiring all new and redeveloped parcels in the village to be reviewed for stormwater management by the Jackson County Health Department. The review will ensure qualifying development conforms to the County's stormwater performance standards described in the Upper Grand River Plan. Beyond this resolution, our village planning commission will pursue the option of codifying the stormwater management requirements within our village code of ordinances. A schedule is provide in table 4.

1.0 PUBLIC EDUCATION

	Activity	Mechanism	Materials	Schedule	Status Report 2014
1	Educate residents about Michigan's phosphorus fertilizer ban	(1) Village website (2) Village newsletter to approx. 1,500 citizens (3) Brochures (at village hall)	MDARD brochure; copy for newsletter from KRWC	On-going; corresponding to Village's fall leaf pick-up	
2	Encourage leaf composting, good lawn care practices, and waste disposal	(1) Village website (2) Village newsletter	Information about village programs, including fall leaf pick-up and on-going leaf drop off at village compost site	Once annually; fall during yard maintenance/ clean-up time	Offered leaf pick-up fall 2014 Village compost drop-off site open for residents
3	Educate residents about stormwater and sediment pollution at community event(s)	Concord Classic (annual summer community event held weekend in late June)	Brochures or information from TMDL committee, KRWC, and MDEQ	Once annually; minimum of one event starting in 2015	
4	General stormwater and TMDL education promoting BMPs	(1) Village website (2) Village newsletter (3) Park(s)	Pet waste bags at signage at park near Mill Pond; Rotating topics from KRWC and TMDL committee	On-going; links on website, newsletter topics three times/year On-going pet waste clean-up station	Pet clean-up station stocked with bags all year
5	Participate in TMDL public education activities	Advertise Kanoe the Kazoo and Krazy for the Kazoo events at village hall	Give TMDL information to participants	Annually	

2.0 ILLICIT DISCHARGE ELIMINATION

	Activity	Mechanism	Materials	Schedule	Status Report 2014
1	Keep records of any changes to storm sewer system and/or village-owned facilities	Managed by DPW on hard copy maps	Provide records to fire/police	On-going; updated when infrastructure is modified	
2	Employee training for DPW, wastewater, and associated departments	Staff training	Excel video and materials from MS4 communities (Kzoo, BC)	Starting 2015, provide training and refresher every 2 years	
3	Locate and inspect storm sewer outfalls during dry weather	Physical inspections by village employees	Inspection form	Once annually	Storm sewer outfalls located and inspected during wet weather in 2014 (Dry weather screening will be added in 2015)
4	Where discharge is observed, employees will determine source of illicit discharge	Obvious source – eliminate illicit discharge Source not obvious – investigate further	Consult TMDL guidance document (Battle Creek IDEP)	As necessary whenever illicit discharge is detected	
5	Eliminate illicit connections to the storm sewer system	Exercise authority under Section 66-122(d) under Utility Ordinance	Consult MS4 communities on TMDL committee, as needed	As necessary whenever illicit discharge is detected	

3.0 GOOD HOUSEKEEPING AND POLLUTION PREVENTION

	Activity	Mechanism	Department	Schedule	Status Report 2014
1	Employee training to prevent stormwater related pollution (i.e., nutrients and sediment)	Excel training videos and KRWC presentation	DPW/WW Parks	Starting 2015, provide training and refresher every 2 years	
2	Perform street sweeping	Street sweeping contracted to Jackson County Road Commission	Contract	Once annually (spring)	June 17 2014
3	Inspect and clean storm sewer catch basins/facilities	Routine inspection by DPW employees; Catch basin cleaning contract	DPW Contractor	Inspections twice per month; Cleaned once every other year	April-October Cleaning scheduled for 2015
4	Wash vehicles in areas not connected to storm sewer or surface water	(1) Wash where drains connect to sanitary, OR (2) Grassy areas not draining to surface water	DPW WW Fire, Police	On-going; Include in employee training session	Vehicles washed in grassy area of village park
5	Leaf and brush collection, composting option for residents	Collect residential yard debris, compost at village facility open	DPW	Once annually (fall); On-going compost site open to residents	October 1st-November 15th
6	Require proper fertilizer use to protect water quality	(1) No P-fertilizers (2) Proper rates (3) Not adjacent to water	Contractor	Annually	
7	Snow pile storage areas	Do not store snow piles adjacent to surface water or near storm drains located near snow piles	DPW	Annually	Snow stored at village park (not connected to river) on asphalt pad or grass (where no storm sewers present)

4.0 STORMWATER PERFORMANCE STANDARDS FOR NEW AND REDEVELOPED SITES

	Activity	Details	Schedule	Status Report 2014
1	Educate village council on the need for stormwater management at new and redeveloped sites	Get resolution added to Village Council agenda	April 2015	
2	Discuss stormwater review with Jackson County Health Department	Drain Office no longer performing review	March 2015	April 2, 2015
3	Stormwater resolution adopted by village council effective for all new and redeveloped sites	Resolution requiring all new and redeveloped sites to conform to County stormwater standards	Before May 2015	