



Rule 13 - MS4 ANNUAL REPORT

State Form 51278 (R6 / 7-12)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:

IDEM Office of Water Quality , Storm Water Program
MS4 Coordinator
100 North Senate Avenue, Room 1255
MC 65-42
Indianapolis, IN 46204-2251

Telephone: (317) 234-1601 or

(800) 451-6027, ext. 41601 (within Indiana)

Web Access: <http://www.IN.gov/idem/4900>

- NOTE:**
- Annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit the annual report is considered noncompliance with your permit.**
 - For the **first five (5)**-year permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
 - In the **second and subsequent five (5)**-year permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage.
 - Please type or print in ink.**
 - Please answer all questions thoroughly and return the form by the due date.
 - Return this form and any required attachments to the IDEM Storm Water Program, MS4 Coordinator at the address listed in the box on the upper-right.

Five Year Permit Term	Reporting Year
<input type="checkbox"/> 1st Permit Term <input checked="" type="checkbox"/> Second and subsequent five (5) Year Permit Terms	Permit Year <u>11/15/2013-11/15/2015</u> <input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 MS4s in their first permit term must submit reports annually. MS4s that are in subsequent permit terms must submit in years 2 and 4 of the permit term.

PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Permit Number:	INR 0 4 0 073	Type of MS4: <input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> County <input type="checkbox"/> Non-traditional
2. MS4 Entity:	City of Valparaiso <i>(Name of permit holder)</i>	
3. MS4 Operator:	Jon Costas	
4. Mailing Address:	166 W Lincolnway Valparaiso, IN ZIP: 46383 County: Porter	
5. Email Address:	jcostas@valpo.us	

PART B: GENERAL INFORMATION – MS4 COORDINATOR

6. MS4 Coordinator (please print):	Mingyan Zhou	
7. Person's Title:	Deputy Engineer/ MS4 Coordinator	
8. Mailing Address:	166 W Lincolnway Valparaiso, IN ZIP: 46383	
9. Telephone Number:	(219) 462-1161	
10. E-mail Address:	mzhou@valpo.us	

PART C: GENERAL INFORMATION – REPORT PREPARER

11. Name:	<i>(Provide this information if someone other than MS4 Operator or Coordinator completed this report.)</i>	
12. Affiliation with the MS4:		
13. Mailing Address:		
14. Telephone Number:	Extension:	ZIP:



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PART A: GENERAL INFORMATION – MS4 OPERATOR

1. Permit Number:	INR 0 4 0 073	Type of MS4:	
2. MS4 Entity:	Valparaiso University <i>(Name of permit holder)</i>	<input type="checkbox"/> City	<input type="checkbox"/> Town
		<input type="checkbox"/> County	<input checked="" type="checkbox"/> Non-traditional
3. MS4 Operator:	Susan Scroggins Vice President for Finance and Administration		
4. Mailing Address:	1700 Chapel Drive Valparaiso, IN ZIP: 46383 County: Porter		
5. Email Address:	Susan.Scroggins@valpo.edu		

PART B: GENERAL INFORMATION – MS4 COORDINATOR

6. MS4 Coordinator <i>(please print)</i> :	Ron Brindley		
7. Person's Title:	Director of Space Planning and Utilization		
8. Mailing Address:	610 Don Hovey Drive Valparaiso, IN ZIP: 46383		
9. Telephone Number:	(219) 464-5437		
10. E-mail Address:	Ron.Brindley@valpo.edu		

PART C: GENERAL INFORMATION – REPORT PREPARER

11. Name:	<i>(Provide this information if someone other than MS4 Operator or Coordinator completed this report.)</i>		
12. Affiliation with the MS4:			
13. Mailing Address:			
	, IN	ZIP:	
14. Telephone Number:	Extension:		

15. E-mail Address:

PART D: PROGRAM MANAGEMENT
327 IAC 15-13-18

16. Provide a summary of the following program management activities performed during the reporting period:

- a) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.
- b) Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")
- c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.
- d) Provide updated receiving water information completed during the reporting period if applicable.
- e) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.
- f) Provide a list of new active industrial sites identified during this reporting period.
- g) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.
- h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.
- i) Other:

16 a)
City of Valparaiso, Jon Costas, Mayor

Valparaiso University, Susan Scroggins, Vice President for Finance and Administration

16 b)
A map of City of Valparaiso Limits as of Nov. 2015 is provided in attachments. The City annexed several parcels in 2014 as shown on the map. The map also showed one parcel annexed in 2011, and another parcel annexed in 2012. These two parcels were not reported in the previous report therefore they are reported here.

Valparaiso University: Within the City limits of the City of Valparaiso.

16 c)
The City of Valparaiso and Co-permittee Valparaiso University have been monitoring the quality of our receiving waters in Salt Creek Watershed at multiple locations since 2004. The new data collected during this reporting period is provided in attachments.

Valparaiso University: None at this time.

16 d)
The City of Valparaiso is continuing to define its receiving waters as those shown as a solid blue line on a United States Geological Survey 7.5-minute quadrangle map. The City of Valparaiso has no new receiving waters to report at this time.

Valparaiso University: None at this time.

16 e)
Stormwater fees collected from local residential and nonresidential properties are the major funding sources for the City of Valparaiso for MS4 program implementation during this reporting period.

The City of Valparaiso has also received a grant from Lake Michigan Coastal Program to install two rain gardens at Central Elementary School. This project provided and will continue to provide benefits for Public Education and Outreach on stormwater management, as well as at improving the quality of stormwater runoff from the area.

Valparaiso University: There are no funding sources.

16 f)
1. AM Stabilizers, 705 Silhavy Rd, Valparaiso, IN 46383.
2. Pratt Industries just added a new paper recycling plant at 3050 Anthony Pratt Drive, Valparaiso, IN 46383, next to the existing cardboard box plant at 3155 Ind. 49, Valparaiso, IN 46383.

Valparaiso University: There are none on campus.

16 g)
None

Valparaiso University: There are none on campus.

16 h)
A summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period is provided in attachments.

Valparaiso University: There were no complaints.

16 i)
The City of Valparaiso updated Stormwater Management Ordinance in 2015.

The MS4 Coordinator attended the following trainings during this reporting period:

1. 12/05/2013, attended the training workshop on MCM 6 (Good Housekeeping and Pollution Prevention) hosted by the NIRPC MS4 partnership at Lake County Soil and Water Conservation District. Matt Evans, the Valparaiso Public Works Director, and Ken Dishman, the Valparaiso Parks Department Maintenance Director also attended the workshop.
2. 12/11/2013, attended the Indiana Watersheds Webinar Series "Watershed Monitoring: An Overview of IDEM's Monitoring Programs to Assess the Quality of Indiana's Surface Streams" webinar.
3. 1/13/2014, attended the EPA's webcast on "Building Green Infrastructure, Jobs, and Wealth: The Prince George's County, Maryland Urban Stormwater Retrofit Public Private Partnership (P3) Model".
4. 2/25/2014, attended the Water Environment Federation webinar on "Stormwater Management Incentives and Public Private Partnerships in Philadelphia: Driving Affordable, Green Stormwater Infrastructure Retrofits on Private Properties".
5. 2/28/2014, attended the AutoCAD Civil 3D Tutorial training provided by Greg Lorig (DLZ) at Valparaiso City Hall.
6. 5/22/2014, attended the MCM 3 IDDE training workshop, hosted by the NIRPC MS4 partnership at NIRPC.
7. 5/13/2014, attended the Indiana Annual MS4 Meeting at Indianapolis.
8. 6/26/2014, attended the 2014 MS4 Pre Audit Workshop at Harre Union, Valparaiso University, 9:00 am - 3:00pm.
9. 7/15/2014, attended the Community and Urban Forestry (CUF) Managing Municipal Trees webinar, 11:00am - 12:00pm CDT.
10. 7/29/2014, attended the "Green Infrastructure on Brownfields: Considerations and Opportunities" webinar, 1:30 pm - 2:45 pm CDT.
11. 8/6/2014, attended the "Linking Stormwater BMP Performance to Receiving Water Protection: Improving Selection and Design" webinar, 12:00pm - 1:30 pm CDT.
12. 9/25/2014, attended the MCM5 Post-construction Stormwater Runoff Control training workshop, hosted by the NIRPC MS4 partnership at NIRPC.
13. 9/30/2014, visited Star Disposal Homewood with Porter County Master Recycler course.
14. 10/8/2014, attended the "Pathogens in Freshwater Systems: Are the E. coli Whispering to Us?" webinar, 11:00 am - 12:00pm CDT.
15. 10/29/2014, attended the "CLEAN Community Challenge Social Media" webinar, 12:30pm - 1:30pm CDT.
16. 10/30/2014, attended the "Moving toward Sustainability" webinar, 11:30am - 1:00pm CDT.
17. 11/6/2014, attended the "Winter Roadway Deicing/Anti-icing Operations: Approaches to Help Keep Roads Clear and Waters Clean" webinar, 12:00pm - 1:30pm CST.
18. 11/12/2014, attended the "Oil, Chemical and Waste Handling Training for Utility Employees" webinar provided by Wessler Engineering, 9:30am - 10:30am CST.
19. 11/19/2014, attended the "Managing Storm Water on Construction Sites: Discharge Sampling, Inspecting BMPs, and Maintaining Sediment & Erosion Controls" webinar provided by Storm Water Solutions, 1:00pm - 2:00pm CST.
20. 12/2/2014, attended the "Green Infrastructure for Localized Flood Management" webinar provided by U.S. EPA 2014 Green Infrastructure Series, 12:00pm - 1:30pm CST.
21. 12/11/2014, attended the "Green Streets and Alleyways" workshop at Hobart Community Center.
22. 12/16/2014, attended the "The Best Practices for Hydromodification Design/Management and Low Impact Development" webcast provided by Civil + Structure Engineer, 12:00pm - 1:00pm CST.
23. 1/20/2015, attended the "MS4 Good Housekeeping Do's and Don'ts" webinar hosted by Wessler Engineering.
24. 3/4/2015, attended the "Green Alternatives to Hard Armor" webinar hosted by Forester University.
25. 5/12/2015, attended the Indiana Annual MS4 Meeting at Indianapolis.
26. 8/27/2015, attended "The Final Clean Water Rule" webinar co-hosted by U.S. Environmental Protection Agency's (EPA) and U.S. Department of the Army's (Army).
27. 10/14/2015, attended "LiDAR and Its Applications" webinar, 9:00am - 10:00am CDT. The webinar was hosted by Wessler Engineering.
28. 10/21/2015, attended "Maximizing Erosion Control with Proper Material Selection" webinar presented by Profile Products LLC. at 1:00pm CDT.
29. 10/28/2015, attended NWI Cleanwater Partnership workshops on MCM6 (Good Housekeeping and Pollution Prevention) hosted by the NWI MS4 partnership at Construction Advancement Foundation (CAF), 6050 Southport Rd. Portage, IN 46368, 9:00am - 12:00pm CDT.
30. 10/28/2015, attended NWI Cleanwater Partnership workshops on MCM3 (IDDE) hosted by the NWI MS4 partnership at Construction Advancement Foundation (CAF), 6050 Southport Rd. Portage, IN 46368, 1:00pm - 4:00pm CDT.
31. 11/10/2015, attended NWI Cleanwater Partnership workshops on MCM4 (Construction Site Stormwater Management) hosted by the NWI MS4 partnership at Construction Advancement Foundation (CAF), 6050 Southport Rd. Portage, IN 46368, 9:00am - 12:00pm CST. Don McGinley and Gina Rospieski from the City of Valparaiso Project and Facility Management department also attended this workshop.
32. 11/10/2015, attended "HUD Water Wednesdays - Incorporating Green Infrastructure into Housing Developments" webinar, presented by EPA at 1:00pm CST.

PART E: PUBLIC EDUCATION AND OUTREACH - MINIMUM CONTROL MEASURE

17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program BMPs that went beyond those identified in the SWQMP.
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- f) Other:

17 a)

The City of Valparaiso has conducted many Public Education and Outreach activities towards different types of constituent during this reporting period. Please refer to the Programmatic Indicators Report for the activities.

During this reporting period, the City of Valparaiso entered into a memorandum of understanding with Northwestern Indiana Regional Planning Commission (NIRPC) to implement some BMPs identified in Stormwater Quality Management Plan (SWQMP) Public Education and Outreach MCM. NIRPC's 2014 and 2015 MS4 reports are provided in attachment.

In 2013, Porter County MS4s came together to review the Recycling and Waste Reduction District of Porter County's (RWRDPC) school education programs to determine where storm water education could be added. RWRDPC was able to add storm water quality education to nine of their eleven programs. A list of programs can be found on the district's website. The number of students reached during reporting period is provided in the Programmatic Indicators Report.

The City of Valparaiso and RWRDPC have also partnered and provided water programs to Discovery Day Camp (the camp organized by Valparaiso Parks Department) campers. The information on the offered programs and the number of kids reached is provided in the Programmatic Indicators Report.

The City of Valparaiso and RWRDPC have also partnered and hosted other Public Education and Outreach events including Rain Barrel Decoration Contest for schools. The number of Valparaiso schools participated into the contest is provided in the Programmatic Indicators Report.

Valparaiso University: Making staff and contractors aware of stormwater management.

17 b)

Insufficient personnel of our MS4 Program has been the main obstacle for this MCM. Partnering or contracting with other entities was the approach we used to solve the problem.

In addition, it has not been easy to get into schools due to the tight curriculum of the schools. Partnering with RWRDPC, which was already in schools to incorporate stormwater messages into the existing programs was the way to solve the problem. We also worked to provide education to students at programs outside of the school, such as summer camps and girl scouts.

Valparaiso University: Funding and don't have the authority to go outside of my department.

17 c)

None.

Valparaiso University: Educating staff on proper stormwater management.

17 d)

Stormwater BMPs installed or initiated for this MCM during this reporting period include:

- (1) Installed two rain gardens and a sign at Central Elementary School in 2014 to improve quality and reduce quantity of stormwater runoff, and also serve as public education and outreach BMPs;
- (2) Developed and started to distribute the "A homeowner's guide to Soil Erosion Control" brochure to some residents who purchased a new house with unvegetated yards;
- (3) Mailed educational brochure to septic system owners;
- (4) Mailed educational brochures to businesses; and
- (5) Provided educational programs to summer camp campers.

Valparaiso University: Stormwater lids marked 'only water down the drain'.

17 e)

The City of Valparaiso partnered with NIRPC and RWRDPC to provide public education and outreach programs during this reporting period. The City of Valparaiso is also a member of the Northwest Indiana Stormwater Advisory Group (NISWAG), which meets monthly. In addition, the City of Valparaiso is co-permitted with Valparaiso University to implement the Stormwater Quality Management Plan.

The partnerships for this MCM are overall successful. The NIRPC partnership made it possible to have consistent stormwater messages delivered in the region. Also, by concentrating the resources, professionals can be hired to perform certain work, such as providing training workshops on various topics. The partnership with RWRDPC made it possible to incorporate stormwater messages into the district's existing programs and provide to schools. This partnership also made it possible to deliver consistent messages in the whole region. The NISWAG partnership made it easier to share information and experiences among MS4 entities in the region.

Valparaiso University: Facilities Staff annual stormwater training and follow up test. Biology courses related to stormwater.

17 f)

None.

18. Identify the best management practices for public participation and involvement included in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.
- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program BMPs that went beyond those identified in the SWQMP.
- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- f) Other:

18 a)

During this reporting period, the public participation and involvement at stormwater management included public attendance at council and board meetings, watershed management stakeholder meetings, and public participation at tree planting events, on site stormwater management using rain barrels, pet waste management, yard waste management, E-waste and HHW collection events, and Report-A-Polluter program. Please see the Programmatic Indicators Report for the detail of the activities.

Valparaiso University: Campus clean up by staff with student labor. Campus wide recycle pick up.

18 b)

Insufficient personnel of our MS4 Program has been the main obstacle for this MCM. Partnering with other entities is our approach to solve the problem.

Valparaiso University: Getting all of campus involved.

18 c)

None.

Valparaiso University: Presentation on the Fites underground StormTech drainage system.

18 d)

Stormwater BMPs installed or initiated for this MCM during this reporting period include: Beauty Creek Watershed Management Stakeholder Meeting. Please refer to the Programmatic Indicators Report for detail of the meeting.

Valparaiso University: Salt storage now covered. Fuel spill containment dam.

18 e)

The City of Valparaiso has formed a partnership with the Recycling and Waste Reduction District of Porter County to provide programs to city residents, such as E-Waste collection, HHW collection events, and yard waste management. The partnership has been very successful.

Valparaiso University: Good cooperation with staff and making them aware of proper storm water management.

18 f)

None.

PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION - MINIMUM CONTROL MEASURE

19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).
- b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.
- c) Identify changes made to the IDDE Plan during this reporting period if applicable.
- d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.
- e) Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a timetable for completion.
- f) Other:

19 a)

BMPs identified in SWQMP Part C submitted in 2005:

BMP 1: Salt Brine usage in street de-icing

Timeline for Implementation: implemented winter 2004/2005

Measurable Goal: A reduction in salt usage in de-icing streets

Progress made towards the BMP: The City of Valparaiso has been using the least amount of salt possible for street de-icing while ensuring the streets are safe for vehicles to drive on in winter. However, the amount of salt used over years cannot be compared to evaluate the program performance as the weather each winter is different.

BMP 2: Monthly City Safety Meetings

Timeline for Implementation: Already in place

Measurable Goal: Time spent on Rule 13 discussion and awareness

Progress made towards the BMP: The Monthly City Safety Meetings have stopped. Since the program is very mature now, a regular meeting is not hold to discuss Rule 13. A meeting would be called on when it is needed to discuss the Rule and rule requirements.

BMP 3: Quarterly S.W.A.C. meetings

Timeline for Implementation: Implemented June of 2003

Measurable Goal: Rule 13 awareness to public

Progress made towards the BMP: Since the program is very mature now, the Quarterly S.W.A.C. meetings have stopped. Rule 13 education and awareness to public is now conducted in other ways. See Programmatic Indicators Report for the activities.

BMP 4: Prepare Illicit Discharge Ordinance

Timeline for Implementation: December 31, 2006

Measurable Goal: Adoption of Ordinance

Progress made towards the BMP: IDDE Ordinance was adopted in 2006.

BMP 5: Prepare Ordinance regarding Regulations Controlling Environmental Impacts from Land Disturbing Activities

Timeline for Implementation: December 31, 2005

Measurable Goal: Adoption of Ordinance

Progress made towards the BMP: the City of Valparaiso has in place, since 1996, an ordinance establishing the Department of Stormwater Management, including an article dealing with Erosion Control on Sites with Land Disturbing Activities. The article has been updated over years. The Stormwater Management Ordinance was updated with major revision in 2015.

BMPs identified in SWQMP Part C Update submitted in 2010:

BMP 1: Develop an Illicit Discharge Detection and Elimination Plan

Timeline for Implementation: Have the plan in place by March 2011

Measurable Goal: The City of Valparaiso together with Valparaiso University will develop and implement an illicit Discharge Detection and Elimination plan. The measurable goal is to have the plan in place and to start to implement the plan by January 2011.

Progress made towards the BMP: the plan has been in place since October 2010.

BMP 2: Perform dry weather screening outfall inspections

Timeline for Implementation: Start from year 2011

Measurable Goal: At least annually, each outfall is inspected with additional monitoring on the outfalls in those areas of the City that contain significant industrial facilities as well as those areas of the City that rely upon on-site wastewater treatment (septic systems).

Progress made towards the BMP: the City's MS4 outfalls have been prioritized and monitored/screened by City employees. The ones with higher priority are monitored more closely.

BMP 3: "Report-A-Polluter" program

Timeline for Implementation: Start from September 2010

Measurable Goal: Beginning September in 2010, the City of Valparaiso together with Valparaiso University will implement a "Report-A-Polluter" program to field complaints from the public on illegal dumping, illicit discharges, poor erosion control practices, and other activities within the City MS4 area that negatively impact stormwater quality. Citizens will have opportunity to submit such complaints through an email hotline. Progress made towards the BMP: the program has been in place since September 2010.

BMP 4: Review City's current Long Term Control Plan (LTCP) for combined sewer overflow (CSO)

Timeline for Implementation: By January 2011, review LTCP to ensure consistency between the LTCP with this MCM.

Progress made towards the BMP: the BMP has been accomplished.

Valparaiso University: Continued outlook for IDDE.

19 b)

Insufficient personnel and budgetary constraints have been the main obstacles for the implementation of this MCM. Although the mapping and screening of outfalls were both ranked at the BEST level by IDEM at the IDDE audit conducted on July 13, 2012, the screening of outfalls could be made better by increasing the screening frequency and using more advanced technology if the City's MS4 program had more manpower and budget to utilize on this MCM.

Valparaiso University: Just work on continuous monitoring.

19 c)

No changes were made to the IDDE Plan during this reporting period.

Valparaiso University: No changes were made.

19 d)

The City has updated its Stormwater Management Ordinance in 2015, but no revisions were made to IDDE section of the ordinance.

Valparaiso University: No revisions were made during this time.

19 e)

All the mapping has been done. New stormwater structure is added to the map as it is installed. All outfalls have been screened as required by Rule 13. The mapping and screening have been ranked as the "BEST" according to the results of the IDDE audit conducted on July 13, 2012.

Valparaiso University: Those are mapped by the City of Valparaiso.

19 f)

The City of Valparaiso and Valparaiso University had an IDDE Audit on July 13, 2012. The audit report indicated all the audited items were satisfactory, and there were no additional requirements at the time. The mapping and screening have been ranked as the "BEST".

During this reporting period, the City of Valparaiso MS4 Coordinator has attended many meetings and training workshops to receive education on the requirement and implementation of this MCM. The meetings and training workshops are listed at 16 i).

20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.
- b) Describe program implementation partnerships and explain successes and barriers during this reporting period.
- c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.
- d) Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.
- e) MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.
- f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.
- g) Other:

20 a)

BMP 1: Revision of City's Erosion Control Ordinance

Timeline for implementation: December 31, 2005

Measurable Goals: Adoption of revised ordinance by Common Council

BMP 2: Adopt Inspection Program (Part Revision of City's Erosion Control Ordinance)

Timeline for Implementation: December 31, 2005

Measurable Goals: Adoption of revised ordinance by Common Council

BMP 3: Reexamine Violation Fines and Enforcement (Part Revision of City's Erosion Control Ordinance)

Timeline for Implementation: December 31, 2005

Measurable Goals: Adoption of revised ordinance by Common Council

Progress made for the above three BMPs: The measurable goals of these BMPs have been accomplished years ago. The City of Valparaiso updated its Stormwater Management Ordinance again in 2015.

Valparaiso University: Work with contractors on Rule 5 requirements. Make sure they follow up when necessary.

20 b)

The City of Valparaiso and some other MS4 entities in Northwest Indiana have formed a Stormwater Advisory Group (NISWAG) to share information and experience at implementation of this MCM. Setting up consistent standards for construction site stormwater management in the whole region is very important. It makes it easier for developers, builders and contractors to follow the rules, and for inspectors to do inspection and enforcement. From this aspect, this partnership has been very successful. There is no other partnership for this MCM.

Barriers: insufficient personnel and budgetary constraints of our MS4 Program are main obstacles for this MCM.

Valparaiso University: Contractors submit soil erosion inspection logs monthly and after major rain events. Documentation and pictures are included along with corrective actions.

20 c)

During the reporting period, 317 Erosion Control permits were issued. As for enforcement, 17 Notice of Erosion Control Violation were generated using the Trakit software (therefore there was a formal paper copy of the NOV) and issued. Among those 8 were fines and 9 were warnings. In addition, a lot more warnings were issued via sending emails to site operators or talking to the site operators on site or over phone calls.

Valparaiso University: 9 construction sites were identified during this period. No enforcement actions were taken at the sites.

20 d)

The "City of Valparaiso Erosion and Sediment Control Notes" as an insert in permit application package, was distributed to all builders who have built in the City of Valparaiso during reporting period.

The public education and outreach effort mentioned in the Programmatic Indicator report for Residents/General Public could also reach and educate construction personnel during reporting period.

Valparaiso University: None were provided by the University. Contractors provided training opportunities to workers as needed.

20 e)

During this reporting period, the City of Valparaiso MS4 Coordinator has attended many meetings and training workshops to get education on the requirements and implementation of this MCM. The meetings and training workshops are listed at 16 i).

Valparaiso University: Discussions and training at monthly NISWAG meetings.

20 f)

In 2015, the City of Valparaiso updated its Stormwater Management Ordinance, which includes regulations for construction site stormwater runoff control. The link to the ordinance is provided on the City's website.

Valparaiso University: No updates at this time.

20 g)

None.

PART I: POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE

21. List the best management practices for post-construction storm water run-off control identified in your SWQMP Part C and then respond to the following:

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.
- c) Describe program implementation partnerships and explain successes and barriers.
- d) MS4 area personnel responsible for implementation of the post-construction minimum control measure shall receive, at a minimum, annual training. Identify training provided for this minimum control measure during this reporting period.
- e) Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.
- f) Other:

21 a)

BMP 1: Controlled Discharge Required (City of Valparaiso Drainage Ordinance)

Timeline for Implementation: Currently in place

Measurable Goal: Continued application of the ordinance

BMP 2: Storm Sewers, Structures, Ditches, Swales, and Culverts (City of Valparaiso Drainage Ordinance)

Timeline for Implementation: Currently in place

Measurable Goal: Continued application of the ordinance

BMP 3: Detention Basins (City of Valparaiso Drainage Ordinance)

Timeline for Implementation: Currently in place

Measurable Goal: Continued application of the ordinance

BMP 4: Proper Design and Construction of Discharge Control Structure and Overflow (City of Valparaiso Drainage Ordinance)

Timeline for Implementation: Currently in place

Measurable Goal: Continued application of the ordinance, number of reported problems/complaints downstream

BMP 5: Requirement for Improved Storm Water Management with Renovation of Existing Developed Sites (City of Valparaiso Drainage Ordinance)

Timeline for Implementation: Currently in place

Measurable Goal: Number of renovated existing sites

Progress made for above BMPs: Continued application of the previous ordinance until the City of Valparaiso adopted the updated Stormwater Management Ordinance in 2015. The new ordinance has more stringent requirements on post construction stormwater runoff control. The link to the ordinance is provided on the City's website.

Valparaiso University: Work with contractors on rule 5 requirements. Make sure they follow up when necessary.

21 b)

Budgetary constraints are the major obstacles for the implementation of this MCM.

Valparaiso University: Soil erosion from turf not establishing. Erosion control silt fence failure. Heavy rain runoff.

21 c)

The City of Valparaiso, partnering with Valparaiso University and Valparaiso Community Schools, with funding from Lake Michigan Coastal Program and local match, constructed two rain gardens at Central Elementary School property. One rain garden had an iron enhanced sand filter between the compost layer and supporting gravel layer for the purpose of capturing dissolved phosphorus. The second rain garden was a conventional design without the iron enhanced sand filter layer. In addition to treating polluted stormwater runoff, the gardens served as a research site for the Valparaiso University College of Engineering to demonstrate a new rain garden design that reduces phosphorus loading to surface water bodies. The gardens also serve as a public education and outreach project. The partnership was very successful.

There is no other partnership formed for the implementation of this MCM.

Valparaiso University: Good erosion control silt fence placement.

21 d)

During this reporting period, the City of Valparaiso MS4 Coordinator has attended many meetings and training workshops to get education on the requirement and implementation of this MCM. The meetings and training workshops are listed at 16 i).

Valparaiso University: Discussions and training at monthly NISWAG meetings.

21 e)

The City of Valparaiso updated its Stormwater Management Ordinance in 2015. The updated ordinance has more stringent requirements on post construction stormwater runoff control. A link to the ordinance is provided on City's website.

Valparaiso University: No updates at this time.

21 f)

The City of Valparaiso is a nationally designated Tree City, and has identified planting and managing trees as a stormwater management BMP. The City of Valparaiso has begun to budget money for tree replacement since 2001. From 2007 to 2009, the city invested in a database that inventoried all City owned trees in the Right-of-Way. The inventory includes locations, species and condition of all city trees as well as indentifying future planting sites. In 2014 and 2015, our work focused on establishing canopy goals, ensuring species diversity, engaging in regular pruning activities, and improving watershed areas which do not have a lot of trees.

22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C and respond to the following:

- a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.
- b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.
- c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.
- d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.
- e) Other:

22 a)

BMP 1: Salt Storage Facility

Timeline for Implementation: 2007

Measurable Goal: Completion of the Facility

Progress has been made: The City of Valparaiso's Public Works Department constructed one salt storage facility in 2005 at 406 Don Hovey Dr., and another salt storage facility in 2014 at 1855 Joliet Rd. These two storage facilities allow the City to store the salt the City uses for deicing completely indoors.

BMP 2: Partnering with Valparaiso University regarding salt storage and management

Timeline for Implementation: 2007

Measurable Goal: Completion of agreement for V.U. to use the City's salt storage facility, end using its own salt storage facility, and therefore eliminate an unneeded potential for additional pollution.

Progress has been made: It was later determined by both the City and the University that it was not necessary to implement this identified BMP. Valparaiso University has its own covered salt storage at 406 Don Hovey Dr. The IDEM MS4 Coordinator Reggie Korthals visited this site at the audit for the MCMs 1, 2, and 6 in 2009 and had no issues with Valparaiso University's salt storage. She also visited the City site on Don Hovey, and there were not any issues with it neither.

BMP 3: Physical Improvements to Public Works Department Regarding Water Quality

Timeline for Implementation: 2007

Measurable Goal: Completion of Improvements

Progress has been made: At the previous Public Works Campus at 406 Don Hovey Dr., the City of Valparaiso's Public Works Department purchased and constructed the salt storage facility in 2005. Also, secondary containment measures were installed for all storage of petroleum products to prevent any spillage from contaminating ground water. Fuel spill clean-up kits were purchased and placed by the facility's fuel island and other storage locations. In 2014, the City of Valparaiso constructed a new campus for Public Works Department at 1855 Joliet Rd. This campus has many stormwater BMPs installed to minimize polluted stormwater runoff. The BMPs included: water quality swales and basin installed onsite; a covered salt barn to store deicing materials; secondary containment for the brine tank; a fueling island with a cover, a 13' wide manmade berm on the south side of the island to prevent contaminated stormwater draining south, an emergency "e-stop" valve next to fuel island, a completely level slab at the fueling area so it will hold spills, and spill kit onsite to clean up if spill occurs; activities including sign making, vehicle maintenance and storage, are conducted indoors; drains indoor are connected to a sediment trap then an oil separator then to sanitary sewer; and also many spill kits and secondary containment in the Sign/Paint Shop and Vehicle Maintenance Shop.

Valparaiso University: Satisfactory MS4 Storm Water Permit Municipal Operations and Good Housekeeping Audit. No inspection needed.

22 b)

Insufficient personnel and budgetary constraints are the major obstacles for the implementation of this MCM.

Valparaiso University: None at this time.

22 c)

See 22 a) BMP 3 for the BMPs installed at our new Public Works campus at 1855 Joliet Rd.

A Stormwater Pollution Prevention & Spill Response Plan (SWPPP) has been developed and posted at city facilities where there is a potential to produce stormwater pollutants. A self-inspection is conducted once per year at these facilities to ensure they are in compliance with this MCM.

Pet waste Stations have been installed at properties owned and operated by the City, including Fairgrounds Park, Central Park, and the Cumberland Loop.

Valparaiso University: Asphalt dam containment for possible fuel spillage. Salt storage coverage. Spill containment units were needed.

22 d)

During this reporting period, the City of Valparaiso MS4 Coordinator and some other personnel have attended many meetings and training workshops to get education on the requirement and implementation of this MCM. The meetings and training workshops are listed at 16 i).

In addition, city employees at most department were trained using multiple materials, such as training videos including "Rain Check – Stormwater Pollution Prevention for MS4s", "Storm Watch – Municipal Stormwater Pollution Prevention", "Blue is the new Green"; seminars including "Municipal Employee Training—Pollution Prevention and Good Housekeeping: Do's and Don'ts" provided by Wessler Engineering; IDEM Emergency Response PowerPoint presentation, and stormwater news and articles published in City Talk and Valpo Works newsletters. The Public Works Department also conducted snow plow calibration and operation training provided by LTAP, Meth Lab Identification training, and fueling standard operating procedures training to its employees.

Valparaiso University: Facilities Management receive annual storm water training with a exam at the end. This is off a computer program.

22 e)

The City of Valparaiso and Valparaiso University had a Municipal Operations and Good Housekeeping Audit on February 19, 2015. The audit report indicated all the required documentation was "Provided", and no further action was required at the time.

Other activities performed by the City of Valparaiso that aid in the improvement of the stormwater quality:

Stormwater catch basins and intakes cleanup: catch basins and intakes are cleaned and treated every year during the permit cycle and annual volumes collected are recorded.

Street sweeping: the City of Valparaiso has purchased two street sweepers to help keep city's streets clean. On average, all city streets are swept twice a year with additional sweeping on heavily traveled routes when needed. Annual amount of debris collected are recorded in tons.

Trash pick-up: trash is collected weekly by Public Works Department.

Special trash pickups: the city also provides pick-up of extra trash and construction debris with a charge. Furniture, appliances and electronic items are picked up free of charge.

Brush and yard waste: Valparaiso Public Works Department provides residents with curbside brush and yard waste collection. Collection takes place throughout the week. Residential brush and yard waste (including limbs, brush, bushes, roots, leaves, etc.) are accepted. Brush and yard waste picked up by the City is taken to the city-owned state-sanctioned composting facility located at 2150 W. Lincolnway, where they are composted to produce compost and mulch available to residents.

Leaf pick-up: Leaves are picked up during leaf seasons by Public Works Department from every neighborhood once a week during the leaf season (totally 6 or 7 times). The leaves picked up are also taken to the composting facility to produce compost and mulch.

Recycling: Valparaiso has been a leader in municipal recycling services for more than 15 years. The city currently has a 52% diversion rate - meaning more than half of the city's curbside waste is diverted from the landfill and recycled. The city encourages participation by all residents and businesses — even those with private waste service at an apartment complex or business. Acceptable items include paper (newspapers, magazines, junk mail, etc.), cardboard, glass bottles and jars, plastic containers that are labeled for recycling, numbers 1 through 5, and metal cans and jar lids.

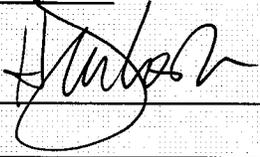
PART K: CERTIFICATION AND SIGNATURE

The individual listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this annual report, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Type or Print Name: Jon Costas

Signature: _____



1-15-16
(mm/dd/yyyy)

PART K: CERTIFICATION AND SIGNATURE

The individual listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:

"By signing this annual report, I hereby certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Type or Print Name: Susan Scroggins

Signature: 

01/13/2016
(mm/dd/yyyy)