



La Porte County • City of La Porte • Trail Creek • Long Beach

## **2018 MS4 ANNUAL REPORT**

**State form--#51278**

### **PROGRAM PLAN**

LAPORTE COUNTY MS4 COOPERATIVE

LA PORTE CITY

LA PORTE COUNTY

LONG BEACH

TRAIL CREEK

LA PORTE COUNTY, IN



# Rule 13 - MS4 ANNUAL REPORT

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

- 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.

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.ov/idem/4900>

Five Year Permit Term	Reporting Year
1st Permit Term	Permit Year <u>2018</u>
*Second and subsequent five (5) Year Permit Terms	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" 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 0 107	Type of MS4: <input checked="" type="checkbox"/> City <input checked="" type="checkbox"/> Town <input checked="" type="checkbox"/> county <input type="checkbox"/> Non-traditional
2. MS4 Entity: LaPorte County MS4-Cooperative Permit (Name of permit holder)	
3. MS4 Operator: Mr. Richard Mrozinski, President, Board of Commissioner	
4. Mailing Address: 555 Michigan Avenue Suite 202 LaPorte, IN	ZIP: 46350 County: LaPorte
5. Email Address: rmrozinski@laportecounty.org	

### PART B: GENERAL INFORMATION – MS4 COORDINATOR

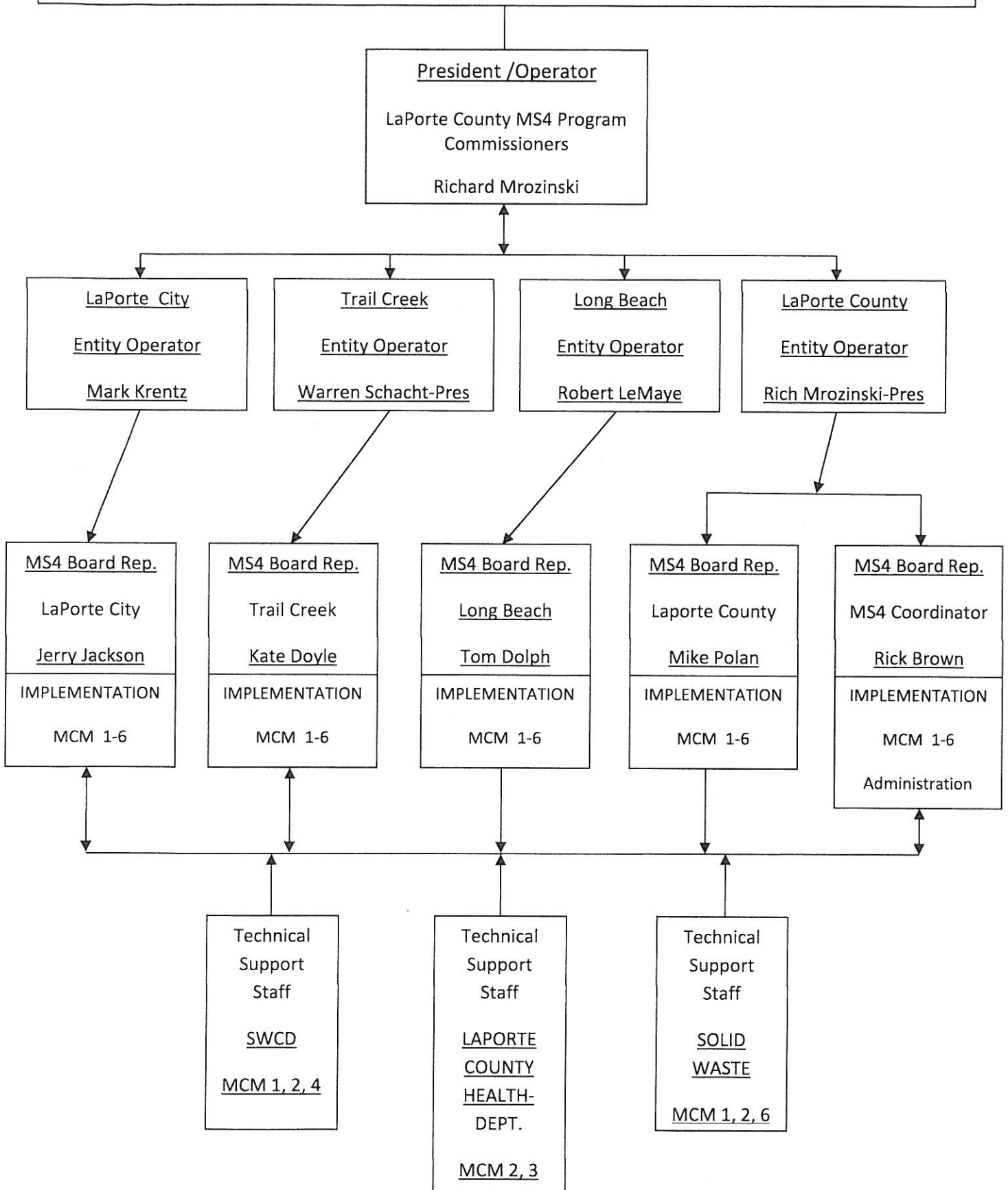
6. MS4 Coordinator (please print): Rick Brown, CESSWI, CMS4S	
7. Person's Title: MS4 Coordinator	
8. Mailing Address: 2857 W St. Rd. #2 Suite B LaPorte, IN	ZIP: 46350
9. Telephone Number: 219-326-6808 ext. 2114 C-219-608-8243	
10. E-mail Address: rbrown@laportecounty.org	

PART D: PROGRAM MANAGEMENT

327 IAC 15-13-18

"SEE ORGANIZATIONAL CHART OF MANAGEMNET RESPONSIBILITIES"

# 2018 LAPORTE COUNTY ADMINISTRATIVE MS4 ORGANIZATIONAL CHART





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.

LaPorte City - Jerry Jackson Entity Rep\_ - Mayor Mark Krentz/Operator

LaPorte County -Mike Polan Entity Rep. – Richard Mrozinski/Operator

Town of Long Beach - Tom Dolph Entity Rep. – Robert LeMay/Operator

Town of Trail Creek - Kate Doyle Entity Rep. - Warren Schacht/Operator

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"), (SEE IN END OF REPORT )city of Michigan City did withdraw from the County MS4 Program. The change effects the County MS4 boundries. Original MS4 mapping only changed due to a deduction of Michigan City Municipal area becoming their own MS4. The LaPorte County MS4 Program co-permit was approved, NOTICE OF SUFFICIENCY (NOS) without Michigan City, with renewal coverage beginning

(11-05-2013). Reported and approved in previous annual reports. This annual report is for 2016/2017 reporting years

- c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.

2016 LaPorte Wastewater Department - Whole Effluent Toxicity Compliance. (Passed)

2017 Porte Wastewater Department - Whole Effluent Toxicity Compliance. (Required twice per year now. (Passed).

- d) Provide updated receiving water information completed during the reporting period if applicable.

LaPorte City has created increased awareness as to high water mark elevations in local lakes, and no direct conveyance without pretreatment to the local lakes is allowed, per the City and County Ordinances. Thereby, establishing construction cut & fill excavation thresholds and improving water quality.

- e) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.

Past ordinance #2007-13 requires obtaining Stormwater Plan Review permit fee. To be deposited into a (Stormwater Non Reverting Fund).

Per above, expanding from a flat fee of \$100/review to a \$100/per acre review fee increased funding for MS4 is occurring.

LaPorte County Council approved additional funding for the MS4 Program. Specifically, for Public Outreach & Education in the amount \$4000.00 now included in all budget cycle's and beyond. This additional funding is for increased stewardship and additional SWCD involvement beyond standard MS4 Education abilities. Past MS4 surveys have allowed us to become aware of additional public awareness being needed. Also, an additional funding account was approved for a "Fine" mechanism and Entity fee's to be directed into an additional non-reverting MS4 account. (Over \$2000 in fines obtained in this reporting period)

- f) Provide a list of new active industrial sites identified during this reporting period.

The Latest Revised list of Industrial Sites were provided for IDEM review at the 2015 MCM #6 April Audit. All confirmed sites are also now mapped as required by April Audit, also.

- g) Provide a list of facilities owned and operated by the MS4 that require Rule5/ 6 (industrial storm water) permits.

The following list is ALL municipal under MS4 jurisdiction. (Only LaPorte Municipal Airport has a Rule 6 permit):

The latest list of MS4 Municipal facilities were provided at the April 2015 MCM#6 AUDIT! (SEE LIST BELOW)

Three additional facilities were added due to new construction since the last reporting years of audit. ((See below updated list):

LaPorte County Highway Dept.

LaPorte County Sheriffs Maintenance Bld'g.

LaPorte City Wastewater Dept.

LaPorte Transport & Maintenance

Facility LaPorte City Street Dept.

LaPorte Municipal Golf Course

LaPorte City Parks

LaPorte County Parks

Trail Creek Street Department

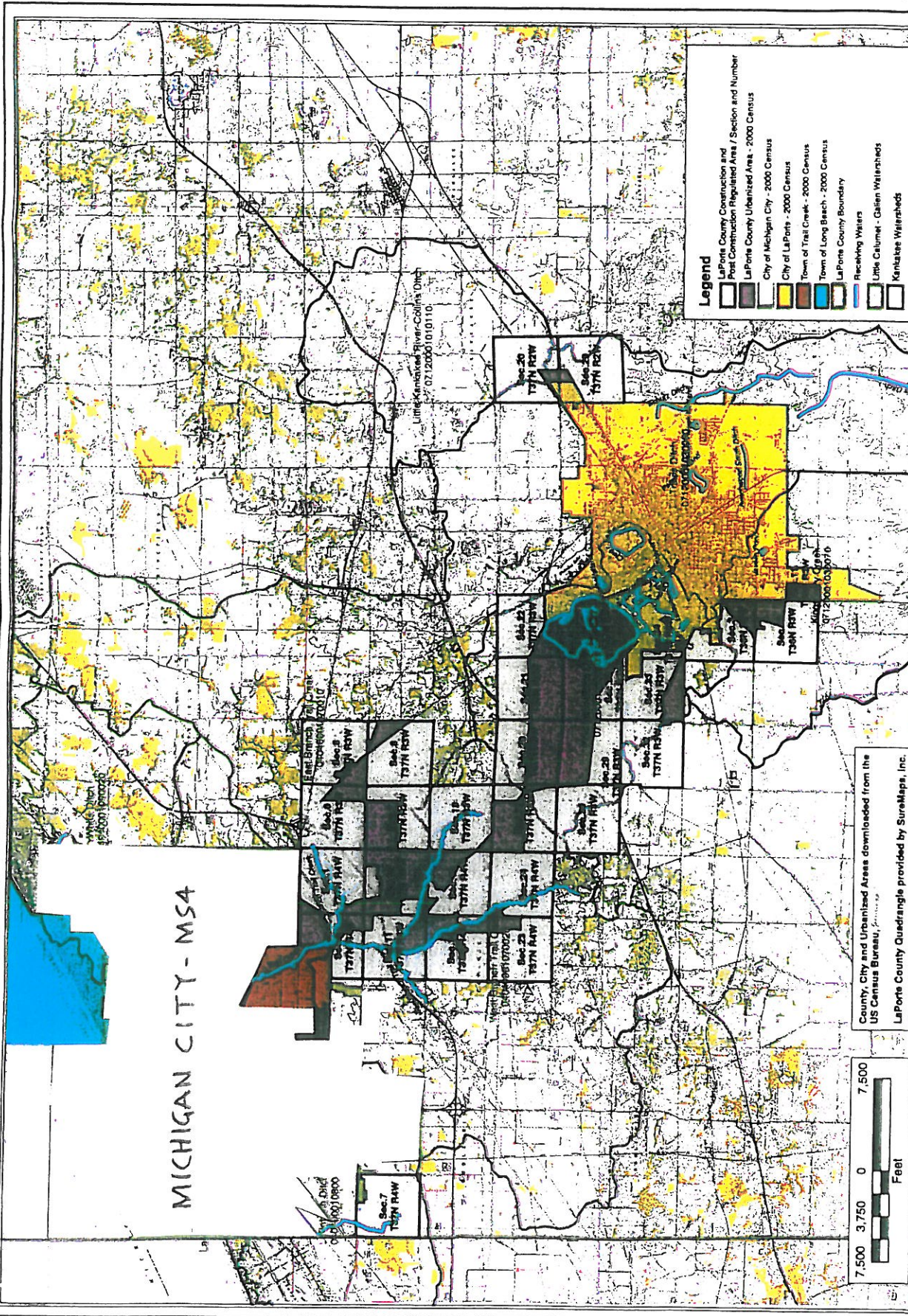
Long Beach Street Department

LaPorte County JV detention Facility-new 2015

LaPorte County Purdue Extension, SWCD, MS4 Facility-new 2015

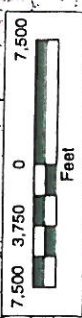
LaPorte County Small Animal Shelter-new 2015





- Legend**
- LaPorte County Construction and Post Construction Regulated Area / Section and Number
  - LaPorte County Urbanized Area - 2000 Census
  - City of Michigan City - 2000 Census
  - City of LaPorte - 2000 Census
  - Town of Trail Creek - 2000 Census
  - Town of Long Beach - 2000 Census
  - LaPorte County Boundary
  - Receiving Waters
  - Little Calumet - Galien Watersheds
  - Kankakee Watersheds

County, City and Urbanized Areas downloaded from the US Census Bureau, [www.census.gov](http://www.census.gov)  
 LaPorte County Quadrangle provided by SureMaps, Inc.



MICHIGAN CITY - MS4

Part E: PUBLIC EDUCATION AND OUTREACH - MINIMUM CONTROL MEASURE

SEE SPREADSHEETS FOR PART E: - SWCD STORMWATER -EDUCATION REPORTS:



LAPORTE COUNTY SWCD



# STORM WATER EDUCATION REPORT

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RULE 13 AND RULE 5  
INTERGOVERNMENTAL PARTNERING  
AGREEMENT-MCM #1 REPORTING  
REQUIREMENTS: "PUBLIC EDUCATION AND  
OUTREACH"

2857 STATE RD. 2 SUITE B  
LAPORTE, IN 46350

# STORM WATER EDUCATION REPORT

MCM #1-“PUBLIC EDUCATION AND OUTREACH”

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**STORM WATER PROGRAMS PRESENTED-2016/2017**

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<b>PROGRAM TOPIC</b>	<b>DATE PRESENTED</b>	<b>LOCATION/NUMBER PARTICIPANTS</b>
Water Cycle	January 6, 2016	Pine Elementary Second Grade 60 Students
LaPorte County Row Crop Ag. Days “Water Quality on the Farm”	January 27 and 28, 2016	Approximately 900 4 <sup>th</sup> grade students and teachers from LaPorte County
Urban Waters Federal Partnership Quarterly Meeting	January 29, 2016	Participants from NW Indiana discuss various water quality projects quarterly
Weathering and Erosion	February 16, 2016	Crichfield Elementary 4 <sup>th</sup> Grade 75 students
Water Quality	February 25, 2016	Handley Elementary 250 Students
Native Plants and Water Quality	March 2, 2016	Crichfield K-Kids 100 Students
Northwest Indiana Regional Envirothon	March 17, 2016	100 Regional High School students
Water Cycle	April 20, 2016	Pine Elementary 1st Grade 60 students
Stormwater Field Trip	May 20, 2016	Westville Middle School 8 <sup>th</sup> Grade 80 students
Rain garden planting	May 26, 2016	Lake Hills Elementary
Green Infrastructure Field Trip to Grand Rapids with Michigan City Officials	September 9, 2016	50 participants
Trail Creek Week-5 days of programming about water quality	October 3-7, 2016	800 Students

on Trail Creek/Canoemobile		
Kankakee River Days-5 days of programming about water quality on the Kankakee River/Canoemobile	October 10-14, 2016	800 students
Water Quality Field Trip	October 24, 2016	Krueger Middle School 80 students
Green Infrastructure Public Workshop	October 4, 2016	First Friday, Michigan City
Green Infrastructure Maintenance Workshop	November 18, 2016	City Of Michigan City Maintenance Staff  30 participants
Water Quality and Quantity	November 21-22, 2016	Boston Middle School 8 <sup>th</sup> Grade 200 students LaPorte, IN
Erosion and Weathering	November 29, 2016	Lake Hills Elementary School 4 <sup>th</sup> Grade 75 Students
Water Cycle	December 1, 2016	Springfield Elementary School 1 <sup>st</sup> grade 60 students
LaPorte County Row Crop Ag. Days "Water Quality on the Farm"	January 25-26, 2017	Approximately 900 4 <sup>th</sup> grade students and teachers from LaPorte County
Michigan City High School Wolves Environmental Restoration Work Day at Hansen Park on Trail Creek	January 31, 2017	Hansen Park Michigan City 30 High School students
Envirothon Invitational Practice Session	February 7, 2017	Cummings Lodge LaPorte, IN 50 high school students
What is a watershed?	February 15, 2017	Lake Hills Elementary 4 <sup>th</sup> Grade 75 Students Michigan City
Water Cycle	February 16, 2017	Kingsbury Elementary 1 <sup>st</sup> Grade LaPorte IN 60 students
Soil Health Workshop	February 28, 2017	Red Mill County Park 10 participants

		LaPorte, IN
Northwest Indiana Regional Envirothon	March 16, 2017	100 Regional High School students
Michigan City High School Wolves Environmental Restoration Work Day at Hansen Park on Trail Creek	March 24, 2017	Hansen Park Michigan City 30 High School students
Master Gardeners Garden Symposium-how to build a rain garden	March 25, 2017	
Water Quality Field Trip	March 29, 2017	Creek Ridge County Park LaPorte High School 50 students
Water Cycle	April 18, 2017	Crichfield Elementary 1 <sup>st</sup> grade 60 students
Creek Clean-up with Michigan City Wolves Environmental Restoration Team	May 2, 2017	Michigan City High School 30 students Hansen Park
Fifth Grade Conservation Field Days-water quality	May 8-12, 2017	Luhr County Park LaPorte, IN Approx.. 800 5 <sup>th</sup> grade students from LaPorte Co.
Lifecycle of salmon/water quality	May 16, 2017	Crichfield Elementary 2 <sup>nd</sup> Grade 80 students
Stormwater Field Trip	Westville Middle School	Westville Middle School 8 <sup>th</sup> Grade 80 students
Water Quality Field Trip	May 23, 2017	Olive Elementary School 5 <sup>th</sup> Grade 80 students
Water Quality Field Trip	June 21, 2017	Summer Camp/Ivy Tech 5 <sup>th</sup> /6 <sup>th</sup> grade 20 students Creek Ridge County Park
LaPorte County Fair Display	July 8-15, 2017	
Michigan City Wolves Environmental Stewardship Team work day and paddle	September 20-21, 2017	Michigan City High School 30 students Hansen Park
Family Fishing Day	September 23, 2017	15 participants Hansen Park

Trail Creek Week-5 days of programming about water quality on Trail Creek/Canoemobile	September 25-29, 2017	800 Students
Kankakee River Days	October 2-13, 2017	1600 students
Water Quality Field Trip	October 27, 2017	Creek Ridge County Park 100 Middle School students
Water Quality Field Trip	November 3, 2017	Creek Ridge County Park 100 Middle School students
Weathering/Erosion Lab	November 7, 2017	Crichfield Elementary 4 <sup>th</sup> Grade 80 students



## **LaPORTE COUNTY COOPERATIVE MS4 PROGRAM:**

### **2016-MS4 Activity- Re-Cap at a glance:**

#### A) Quality Control Plan Reviews. (Total Municipal Projects)

1. Newport Landing
2. LaPorte Plaza 618
3. Franciscan Michigan City Utilities (New Hospital)
4. Monroe Manner
5. 4 projects carried over from 2015

#### B) Registered Complaints.

1. 55 complaints recorded – 132ea. field evaluation & follow-ups.

#### C) Commercial Plan Reviews:

1. 18 ea. Commercial plan reviews completed – field evals./self-evaluations by contractors and completed routine boots on the ground evals., with follow-up.

Total done ----505ea.

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Total field visits done in 2016 = 637ea.

D) New persons self-inspection trained. 14ea.

E) New Technology - new office laptop with windows 10.

F) New information completed for upcoming MCM#4/#5

Audit completed. Ready to be scheduled.

G) MS4 Entity fee's are now being retained in an MS4 fund.

H) Donated funds to City of LaPorte for the Plaza 618 project outreach.

- I) Donated funds to the Northwest Indiana Paddlers Association for the Kankakee River Basin educational float event – outreach.
- J) Planned and coordinated cigarette 4<sup>th</sup> of July cigarette butts for the “Butt counting contest at the LaPorte Co Fair”
- K) The “Bags on Board” Pet Waste Container outreach was doubled from the previous to 800ea. Containers. Estimated pet waste removal in 2016 = 241 Tons, increasing local water quality.
- L) MS4 information is now placed on the back of Long Beach & LaPorte County Building Permits to remind contractors of their responsibilities toward MS4.
- M) MS4 Now has a ticket book if needed to fine contractor’s that are unwilling to do non-compliance correction, to get into compliance.
- N) MS4 now working diligently on 2ea. Capital Projects to correct past deficiencies creating stormwater issues-should be done in spring of 2017.
- O) MS4 will be a participating department in the new 2017 “online” permitting process as authorized by the LaPorte County Council.
- P) MS4 intern project, to design, purchase, distribute through the MS4 Coordinator and Surveyor’s office (President of the MS4 Board) – “PHOSPHORUS FREE ZONE” signs that were given to Pine Lake, Stone Lake, Hudson Lake, and Saugany Lake residents, so local lake residents could place them on their property for outreach. To decrease habits of grass clippings etc., being thrown into the lakes and generally increase awareness of bad habits. Thereby increasing water quality.

I want to thank all the MS4 Entities for a very good MS4 year!

*R. Brown, MS4*



## **LaPORTE COUNTY COOPERATIVE MS4 PROGRAM:**

### **2017-MS4 Activity- Re-Cap at a glance:**

#### **A) Quality Control Plan Reviews. (Total Municipal Projects)**

1. Monroe Manner-sewer separation
2. 18<sup>th</sup> Street & I Street, re-surface, bike lane, & sidewalks
3. LaPorte Airport-utility extension
4. Hwy #20-water main extensions/relocations
5. County Planner—Rolling Prairie & Union Mills new sidewalks
6. Bridge #18-new alterations
7. Center Township Fire Station
8. Projects carried over from 2016-4ea.

#### **B) Registered Complaints.**

1. 93 complaints recorded – 162ea. field evaluation & follow-ups.

#### **C) Commercial Plan Reviews:**

1. 19 ea. Commercial plan SWPPP reviews – field evals./self-evaluations by contractors and completed routine boots on the ground evaluations with follow-up.

Total done ----1262ea.

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Total field visits/evals done in 2017 = 1424ea.

D) New persons self-inspection trained. 17ea.

E) New Technology - new office printer.

F) New information completed for upcoming MCM#4/#5

audit completed and ready for upcoming IDEM Audit.

G) MS4 Entity fee's are continuing and still being retained in an MS4 Entity non-reverting fund (started in 2016).

H) Donated funds to Trail Creek Water Week-Sponsorship of a Boat in the “Creekness Stakes” boat paddling races. MS4 staff also assisted SWCD with stormwater impacts education, at the “Kankakee Water Days Program”

I) Planned, captured, & counted 4<sup>th</sup> of July parade cigarette butts for the “Butt counting contest at the LaPorte Co Fair” (third annual)

J) The “Bags on Board” Pet Waste Container outreach was continued from the previous to 800ea to 1200 ea. containers. Estimated pet waste removal in 2017 = 200 Tons plus. Increasing local water quality.

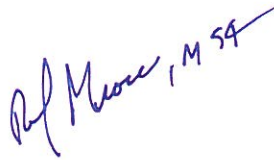
K)\*\* MS4, the lead agency, completed 2ea. Capital Projects. (1) The first was bank stabilization and erosion concerns of an older outfall. Where access was very difficult. A stone base, geotextile fabric, Gabion baskets mattress were installed. Along with energy absorbing A-Jacks to minimize future water energy & erosion. A new outfall pipe was installed along with an animal guard.(Horseshoe Bend & 300N area) (2) The second was evaluating, including watershed engineering and how much water we needed to eliminate in some manner, finding a proper point of outfall, minimizing pollutants being captured in the flood area—(Island Drive),being a highly built-out area. An outfall was decided upon, approximately 700 LF of piping was installed, encased in a gravel/geotextile fabric trench, intermediate clean-outs installed, ran to a “Contech-swirl unit” specifically designed for the hydrology and minimizing sediment outfall thru the design of the Contech unit itself. At the final outfall point, a floc-log was installed to capture any additional sediment/pollutants through opposite charge attraction of the existing sediment/water. The project post completion water testing as compared to pre-constuction water testing revealed a very sharp decrease(+80%) in metals(copper & Zinc). Also, and very important, lead, oils & grease concerns previous to construction post testing revealed “undetectable” in these three areas of concern. !!!!

L) MS4 will be a participating department in the new 2017 "online" permitting process as authorized by the LaPorte County Council.

M) MS4 intern project, started in 2017; the design, purchase, distribution through the MS4 Coordinator, Drainage Bd./MS4 Bd. President, and County Surveyor's office, – "PHOSPHORUS FREE ZONE" signs given to Pine Lake, Stone Lake, Hudson Lake, and Saugany Lake residents, so local lake associations residents could place them on their property for outreach. To decrease habits of grass clippings etc., being thrown into the lakes and generally increase awareness of bad habits. Thereby increasing water quality.

I want to thank all the MS4 Entities, SWCD, County Parks & Solid Waste partners for their assistance and very good 2017 MS4 year!

Rick Brown,

A handwritten signature in blue ink that reads "Rick Brown, MS4". The signature is written in a cursive style and is positioned to the right of the printed name "Rick Brown,".

LaPorte County MS4 Coordinator

h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.

Please review the (2016 and 2017) Reporting years: (MS4 AT A GLANCE). This is a RE-CAP of or individual lists of complaints, field evaluations, and plan review statistics al the end of this report:

PART F: PUBLIC PARTICIPATION AND INVOLVEMENT - MINIMUM CONTROL MEASURE



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.
  - 1) Staff: See previous staff description (BMP), and management flowchart.
  - 2) The MS4 Coordinator is on the LaPorte City Site Review Committee. Participants include LP Wastewater, LP City water, City Engineering & Code Enforcement, LP City Fire, & LP Development This committee reviews construction projects at an early phase to provide input from all for a smoother transition when contractors finalize plans and go to the Building Permit Phase.
  - 3) The MS4 Coordinator is also on the LaPorte County Plat Committee. Reviews early phase of plan development similar to LaPorte above, but County-Wide Projects. However, additional participants include the County Surveyor, County Engineer, County Health Department, and County Building Commissioner, as well as general public..

- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

The Board has a concern that not a lot of local persons know about how to report questions/issues to the MS4 Coordinator. Surveys at the LaPorte County Fair&\$ awareness (MS4), participation involvement continue to improve. So, the Increasing of public awareness is one of the main focus issues for MS4. A 30minute session with the local radio (WLOI/WCOE)-Breakfast Showcase is done at least once a year. Website information is continuously updated with new information, eg; "Illegal Dumping. An interactive weekly reporting form for construction sites and MS4 guidance to "SWPPP" preparation with a "MS4 HOTLINE" for all complaints. General Public & municipal training sessions are available each year. The past/present County Fair presentations included training with interaction such as MS4 "Jepordy", and question/answer training with such items as infrastructure items & maintenance. The main focus was on "STOP SMOKING" and how cigarette butts effect water quality. We also use a spin-wheel for little kids-and get awareness with them also.

- c) Describe program BMPs that went beyond those identified in the SWQMP.

- 1) Partnership Building.

For the 2016/2017 years—partnering with LaPorte City to place inlet filters in the uptown area of "July 4<sup>th</sup> Parade route", and at the local County Fair have a cigarette-butt guessing contest. Where collected butts are placed in a container for the public to guess the amount. There is an announcement date for the two closest winners. Winners get prizes. However, the environment wins due to many conversations and posters displayed about the harmful effects of smoking to themselves and the degrading to our water quality.

- 2) Additional Structural BMP's.

The new Purdue, SWCD, & MS4 building includes stormwater BMP's. A new 200 lineal foot "Pervious Concrete Sidewalk" was installed at the entire front of the new building to show the public the benefits of infiltration versus run-off. Working just fine, with new signage in-place to awareness. the general public on Inlet Protection, Down the Drains, Phosphorus-Free zones. Also, a display of two inlets with inlet filter protection, and how they work.

Also, the latest large lineal McClung Road rehab. project included a concentration "Swirl Unit" as pre-treatment prior to Clear Lake outfall.

A depressional area for parking lot stormwater was designed a "Raingarden" as time and funds allow. Note; the funds for these activities were directly paid for out of the MS4 Budget and approved by County Government Partnership.

3. \* MS4 developed a "MS4 Movie" sponsored by MS4 Entities, available on he MS4 website, with narrative film and footage within our county what MS4 is and what we do. The City of LaPorte is now going to use the film to advertise the beauty to LaPorte County to tourists/visitors. The footage is spectacular-a must see!

4. Also, surrounding the new building is approx. 3-acres of "Native Indiana Prairie Grass" was mixed with native wildflowers to capture the beauty and decrease mowing.

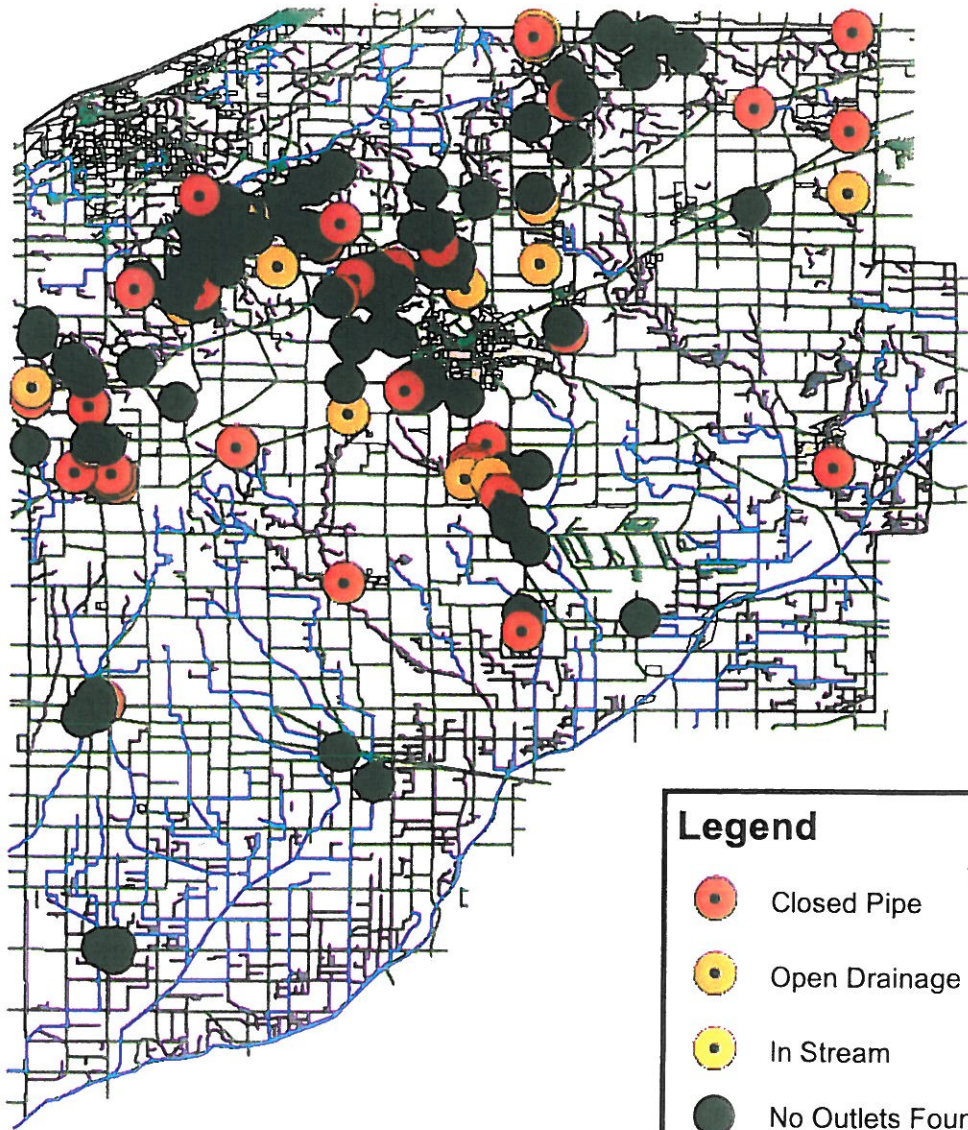


- d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.  
Rain Garden, Rain barrel, Native plantings have all been installed at the LaPorte County Fair Grounds Nature New Walk area. This is a showcase of "Pollination Importance" as well as Indiana native species. A must see at the County Fair.
- e) Describe program implementation partnerships and explain successes and barriers during this reporting period.
1. A Capital project was installed and completed where the County infrastructure was creating extensive erosion onto an area feeding a local pond owner. MS4 took the lead role. Had the area completely re-designed. Changing grade, installed a bed of stone and filter fabric, Gabion baskets, extended the existing piping and installed flared ends. Installed A-Jacks for volume flow control. Also, created a depressed area for volume capacity and sediment fall-out prior to entry into the existing Pond.
  2. An additional Capital project completed was to re-design a flooding area within a municipal area. MS4 was involved with design, engineering, and overall hydrology of the local watershed. Procurement of an easement for installation was also a must. Approx-700lf of a designed trench consisting of perforated pipe, stone unit was installed, and filter fabric was installed. A Contech Swirl-Unit and Floc-Log was installed prior to outfall. Pre/Post water quality testing was done. The end result was meeting and reducing benchmarks per IDEM requirements. Better yet, for oils, grease, and lead, they were untraceable!
- f) Other:
- 1) All routine monthly MS4 meetings are posted for the Public to see at the Purdue Extension Building main entrance. Topics to be discussed, agenda, time, and location so the Public is aware of events etc; allowing the public a chance to participate/review what is going on in MS4.
  - 2) Per MS4/SWCD Intergovernmental Partnering Agreement - MCM #1 & #2: (Continues to be success, \_and has increased with our location being now located in the same building at the Purdue Extension Bldg.)
  - 3) Barriers seem to still exist between the County funding and the needs of MS4. MS4 has been able to hire an assistant with full time summer hours. (part-time winter). This has increased MS4 boots-on-the-ground efforts tremendously. Most construction projects seen 2-3 time a week.
  - 4) MS4 did re-design our goals that were obtained in the original "Part C"-2004, that were not obtainable. They were changed to bar chart type of process. This was included in the 2010 Annual Report and was subsequently approved.
  - 5) The partnerships of additional County department has led to greater understanding of MS4 and what MS4 is intra-governmentally. The development of "Beacon" software-GIS has vastly improved the overall landscape of MS4 issues as well.










NOTE: THE LAPORTE COUNTY MS4 COOPERATIVE PROGRAM PATRICIPATED IN AN AUDIT OF THE MCM#3 IDDE PROGRAM. ALL ITEMS SUCH AS IDENTIFY CONNECTIONS, LOCATE INDUSTRIES, ILLEGAL DUMPING, FAILING SEPTIC SYSTEMS WERE ADDRESSED. ADDITIONAL ITEMS ADDRESSED WERE SPILL PREVENTION, ANALYTICAL PROCEDURES FOR OUTFALL MONITORING, AND DRY WEATHER FLOW CHARACTERIZATION CHECKLIST/RECONNAISSANCE FORM, AND HAVE ALL BEEN IMPLIMENTED. ALL RECEIVING WATERS DOCUMENTED. ORDINANCE REVIEW OF "ORDINANCE 2007-06" WAS REVIEWED AND CHECKED FOR LEGAL AUTHORITY TO GAIN ACCESS FOR INSPECTIONS, AND APPROVED.

Please review the next sheets: At this time 153 ea, outfalls have been recorded with such information " as used in the "Reconnaissance sheet" as recommended by IDEM---see sample for outfall ID#7.

# LaPorte County, Indiana MS4 Outfall Inventory

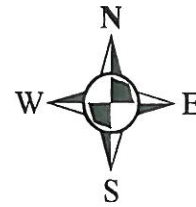
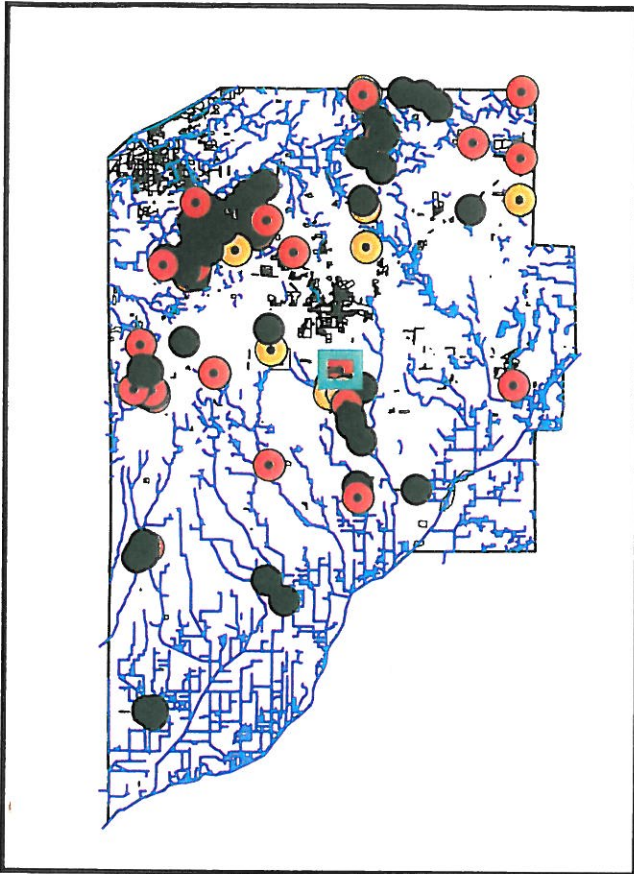


## Legend

-  Closed Pipe
-  Open Drainage
-  In Stream
-  No Outlets Found
-  Legal Drains
-  NHDFlowlines
-  Subdivision Boundaries
-  Roads
-  LaPorte County Boundary



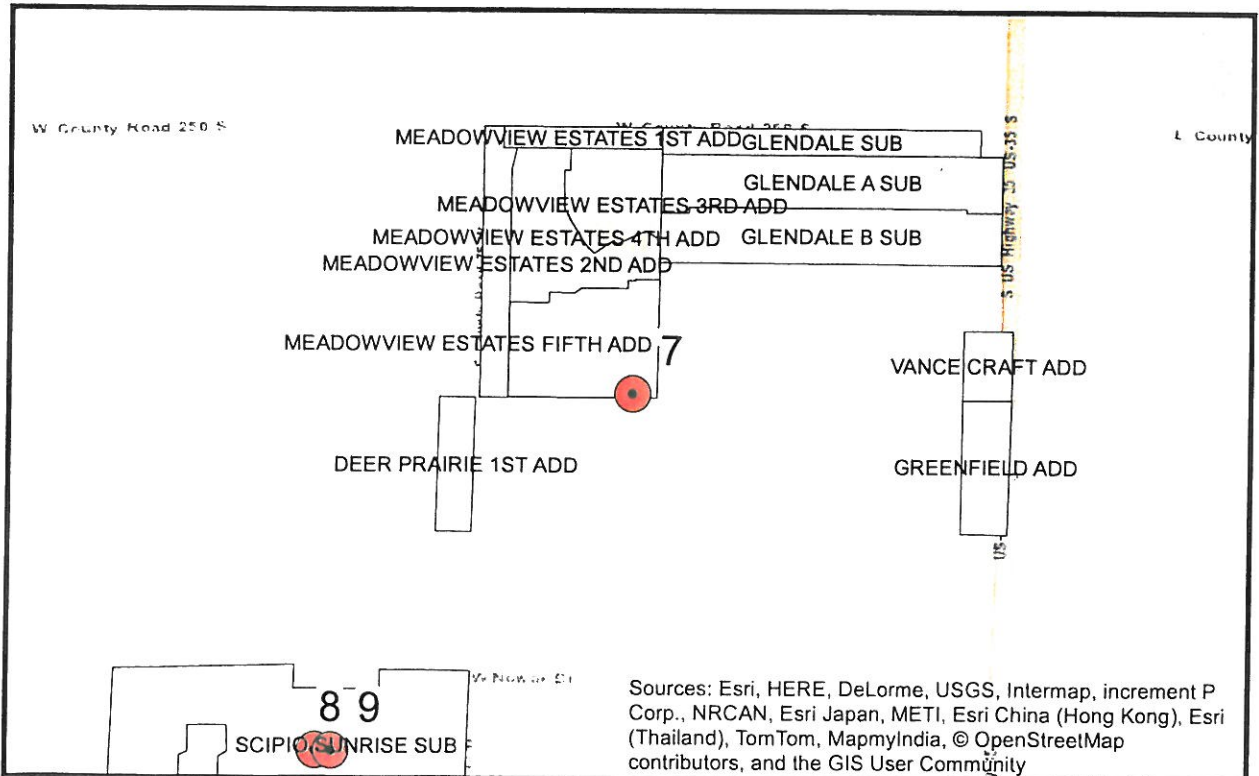
# LaPorte County, Indiana - MS4 Outfall Inventory



ID No. 7

## Legend

- No Outlets Found
- Closed Pipe
- In Stream
- Open Drainage





**LaPorte County, Indiana  
MS4 Outfall Inventory**

**ID No. 7**



OBJECTID	8
SUBWATERSHED	Scipo sunrise
OUTFALL ID	North 1
DATE	6/16/2014
TIME	9:54pm
FORM COMPLETED BY	Rb/aj
TEMPERATURE F	80f
RAINFALL LAST 24 HRS	
RAINFALL LAST 48 HRS	
LAND USE IN DRAINAGE AREA	Suburban Residential
LAND USE IN DRAINAGE AREA OTHER	
OUTFALL LOCATION	Closed Pipe
CLOSED PIPE MATERIAL	HDPE
CLOSED PIPE MATERIAL OTHER	
CLOSED PIPE SHAPE	Circular
CLOSED PIPE SHAPE OTHER	
CLOSED PIPE SHAPE QUANTITY	Single
CLOSED PIPE SHAPE QUANTITY OTHER	
CLOSED PIPE DIAMETER/DIMENSIONS	24in
SUBMERGED IN WATER	Partially
SUBMERGED WITH SEDIMENT	
OPEN DRAINAGE MATERIAL	
OPEN DRAINAGE MATERIAL OTHER	
OPEN DRAINAGE SHAPE	
OPEN DRAINAGE SHAPE OTHER	
OPEN DRAINAGE DIMENSION DEPTH/TOP WIDTH/BOTTOM WIDTH	
FLOW PRESENT	
FLOW DESCRIPTION	
FLOW 1 VOLUME LITER	
FLOW 1 TIME TO FILL SEC	
FLOW 2 FLOW DEPTH INCHES	
FLOW 2 FLOW WIDTH FT IN	
FLOW 2 MEASURED LENGTH FT IN	
FLOW 2 TIME OF TRAVEL SEC	
FLOW TEMPERATURE F	
FLOW PH	
FLOW AMMONIA MGL	
PHYSICAL INDICATORS PRESENT IN FLOW	
ODOR DESCRIPTION	
ODOR DESCRIPTION OTHER	
ODOR SEVERITY	
COLOR DESCRIPTION	
COLOR DESCRIPTION OTHER	
COLOR SEVERITY	
TURBIDITY SEVERITY	
FLOATABLES DESCRIPTION	
FLOATABLES DESCRIPTION OTHER	
FLOATABLES SEVERITY	
PHYSICAL INDICATORS NOT RELATED TO FLOW PRESENT	
OUTFALL DAMAGE	
ABNORMAL VEGETATION	
DEPOSIT OR STAINS	
DEPOSIT OR STAINS OTHER	
POOR POOL QUALITY	
POOR POOL QUALITY OTHER	
PIPE BENTHIC GROWTH	
PIPE BENTHIC GROWTH OTHER	
OVERALL OUTFALL CHARACTERIZATION	
LAB SAMPLE	
LAB SAMPLE COLLECTED FROM	
INTERMITTENT FLOW TRAP SET	
INTERMITTENT FLOW TRAP TYPE	
NOTES	
GLOBAL ID	c7a46b02-7f4c-4700-a7f6-ace854bbdfac
CREATION DATE	6/16/2014 14:57
CREATOR	Rbrown12
EDIT DATE	6/16/2014 14:57
EDITOR	Rbrown12
LATITUDE Y	41.55211298
LONGITUDE X	-86.71953607

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.

1) New progress as identified in the revised 2010 'Part C' IS a list of structural BMPs appropriate for control of construction site run off coinciding with the 'Indiana Storm Water Quality Manual'. Expansion of the BMPs over the next few years may occur as new information becomes available. A new construction Site-Self-Inspection program has been in force for a few years, (Improved in 2016). Weekly inspection reports are now interactive, on the MS4 County website, and email-returnable to the MS4 Coordinator. Other common documents are also available on the MS4 website as well. The website in our communication tunnel to the public.

2) Plan review is completed by the MS4 coordinator holding both CESSWI, CMS4S, CPMSM certifications. Plan review of Municipal MS4 area projects administratively reviewed by SWCD. MS4 does a quality control review for Municipally owned projects only. Verification is done thru SWCD with IDEM plan review.

3) Priority construction sites received increase scrutiny during plan review and inspection of construction site stormwater run-off, Construction sites are considered priority if they contain:

- \* Steep Slopes
- \* Erodible or Hydric Soils
- \* Mass Stripping/Grading Activity
- \* Sensitive Area, Waterbodies or Wetlands

b) Describe program implementation partnerships and explain successes and barriers during this reporting period

1) Yearly intragovernmental agreement with SWCD for MCM #1&2. Including verification of municipal plan review.

2) Coordination with City/County project reviewing. Also, better communications with County Building Commissioner's office and County Planner has increased additional awareness of ancillary department procedures.

3) The MS4 coordinator participates an annual training such as MS4 related workshops/seminars and annually attends the INAFSM conference. The MS4 has a technology-based record keeping system allowing public review for erosion control permitted sites. 4) President of MS4 Board is directly involved with County Drainage/Board member.

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 1) SEE 2016/2017 year end totals "MS4 at a Glance"—within of this report.

2) Typical enforcement is educational and "Stop Work Order" with field evaluation corrections done within required deadlines.

d) Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.

1) A self evaluation training and testing program has been developed for contractors/staff, & municipal employees. (available on-line), Most employees of the MCM#6 Good Housekeeping program have been trained and certified using a self-inspection power-point presentation with a follow-up quiz—if passing grade—a certification is issued by the MS4 Coordinator. Bi-annual testing to begin cycle in 2018. (In last cycle-187eacounty employees were Trained and Certified).

2) CBT Stormwater Warnings Training:(Excal Visual), has also been used in the past, prior to upgrading to the new local web based self-inspection quiz. The Excal Visual had a yearly fee and cannot be installed on the county website—per County IT specifications. MS4 does have CBT (Excal Visual) on a MS4 computer, as a back-up, for additional public education.

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.

MS4 Coordinator is certified in (CESSWI, CMS4S, and CPMSM). Continuing education requirements must be maintained to continue certification. The records are submitted to "Enviorcert International Inc." on a yearly basis to maintain in good standing—"re-certified". A part-time MS4 assistant "full-time summer hours", also is used as additional MS4 supervision of field-operations and bi-weekly site reviews, (at a minimum), are maintained & documented accordingly.

f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.

1) A new plan review fee structure went into effect within the past few years, Whereas, In lieu of a flat \$100 review fee, a review fee of \$100/acre was implemented. Thereby increasing MS4 Non-Reverting funds base.

2) A newly revised "Joint Zoning Ordinance", Updated in 2016, effective October of 2016, has clarified additional responsibilities of the MS4 Coordinator and/or duties of implementation of a the MS4 program supervision. Such as:

3) A commercial SWPPP must be approved and furnished to the Building Commissioner prior to an issuance of a county building permit.

4) The MS4 Coordinator has certain latitude in some situations as long as he is consistent with approval & enforcement.

5) A new non-reverting fund was established for MS4 Entity funds specifically to be used as needed for entity MS4 projects with MS4 Board approval. Also, The MS4 Board also has flexibility and may direct funds be dispersed from any established MS4 non-reverting fund, as funding amounts allow.

6) A Bond is required for 100% of the erosion controls specific to that project. May be certified check, or an Insurance bonding agency. To be returned when all phase-out/or 70% stabilization of the site is in effect, and with the Notice of Termination process completed.

7) A Long Term Maintenance Agreement (LTMA) shall also be required for stormwater structural BMP's to identify with clarity, the agency/owner responsibility for routine maintenance duties.

8) A stormwater "Frac-Out Policy" has been developed by MS4. Whenever a directional-bore process is required, the SWPPP must also have a "Frac-Out Policy" developed by the author of the SWPPP, or the MS4 policy will be followed.



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.

1) Most recent post-construction development has been in the area of run-off control. Treatment train items have been stringently followed to catch hydrocarbons in new gas station construction thereby improving water quality. A procedure for BMP inspection and maintenance are in place and shall be followed. The (LTMA) as described earlier, are now required for local SWPPP approval. A responsible party is now identified concerning maintenance time frame. (Maintenance schedule).

2) All best BMP's are referenced in the Indiana Stormwater Quality Manual. (See individual BMP for design and installation criteria).

3) MS4 coordinator and summer work intern will continue to be trained accordingly, on new BMP's as they are developed.

4) Annual reports will still continue reporting on entity yearly ending quantities of pollutant items reductions/removed.

b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.

1) MS4 is requiring a numerical value for maintenance timeframes, actual inspections/reporting to MS4 is req'd.

2) Actual collection of the Notice of Termination (NOT), are now a required item or be in non-compliance. That simple!

c) Describe program implementation partnerships and explain successes and barriers

1) Working on developing entity partnership/communication as far as maintenance triggers, responsibility level and work sharing. With recent developments in our MS4 program, the newly formed Board agrees that improved cooperation is a priority. Also, with the formulation of working with the local SWCD, education and outreach will be a major focus throughout MS4 terms.

2) The basic barrier continues to be a low concern at the political level—MS4 is not considered very important agency and that the Coordinator is doing a good job, but, "Just keep us in compliance" attitudes politically needs improvement—it is getting better.

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

1) MS4 Coordinator has participated in IDEM and INAFSM training sessions. Continue to pursue update training for all entity personnel on an as needed.

e) Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.

Original MS4 ordinances, Entities involvement are developed to relate to the Rule .Changes required were mentioned earlier.. However, with the recent passage of the Joint Zoning Ordinance (JZO), Article #20 "Stormwater"; County legal authorities are presently reviewing potential disconnects, if any, on a case by case basis. There are a few issues where the Joint Zoning Ordinance is probably going to be tweaked, and is presently being discussed as the general public complaints are the basic driving force to updates.

New definition and situations are forcing some political change at the zoning authority agency crossover level--enforcement may be another issue--stay tuned for updates!

MS4 is in the process of changing vocabulary on the SWPPP approval level and now using MS4 funds from plan review fees, on capital projects to assist county residents/entities with potential pollutant concerns. This is a good use of non-tax dollars, as infrastructure and additional hard surfaces increase. MS4 desires to fix problems now so we are not dealing with them later.

N/A.

PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING –  
MINIMUM CONTROL MEASURE

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.

The LaPorte County Cooperative MS4 Program participated in an Audit, April, 2015

Office procedures, field operations, Buildings Good-Housekeeping inspections were completed by IDEM. All municipal Dept. Heads were present for the first day, with Q & A involvement. All Dept. Heads/and Municipal buildings directors present. (listed below) employees are included in bi-annual MS4 training. All documentation and SOPs were found to be in working order. Mrs. Korthals, IDEM MS4, stated " we were in the best condition and informed she had ever seen us!"

Much progress toward development was noticed, and approved. It is assumed that the preparation for the audit far exceeded this particular page request, as all documentation was readily available and reviewed. The MS4 Coordinator did not answer questions—The various department head did! A large step in MS4 "Good Housekeeping" education was achieved. It was obvious!

- 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.

1) The problem is the administration of the various 13 ea. municipal buildings in the past, were not reporting to the MS4 Coordinator as per the guidance document. That is not true as of today, however. We still are working with them to be even better.

- c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.

1) All BMP's of the 13 documented facilities have their own specific documentation. Relates to their operational requirement & needs, including SWPPP's., for each specific structures location.

2) List of Municipal owned MCM#6 Facilities:

- \* Trail Creek Street Department.
- \* Long Beach Street Department.
- \* LaPorte City Street Department.
- \* LaPorte City Transport.
- \* LaPorte City Municipal Golf Course.
- \* LaPorte City Parks- Main Office.
- \* LaPorte County Parks and Recreation.
- \* LaPorte County Highway Department.

LaPorte County Parks.

Newly Added recently.

\* LaPorte County Purdue Extension, SWCD & MS4 Building

New LaPorte County JV Detention Facility

\* New Addition and existing Laporte County Small Animal Shelter

- d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per Bi-Annual cycle.

1) The MS4 Coordinator is an County employee and receives additional training/outreach each year.

2) The MS4 program/ trained over 187 Municipal documented employees.

3) Department Heads of the above MCM#6 facilities have had hands-on-training and are now doing their own inspections also.

4) See additional sheets on various department municipal pollutant reduction collection quantities.

Contact: Nicole Messacar  
LaPorte County SWCD  
Phone 219-326-6808  
nmessacar@laportecounty.org

2857 W. State Rd. 2  
Suite B. LaPorte, IN 46350

**LaPorte County SWCD**

# Press Release

## **“Back to Basics” Contractor Workshop scheduled for Tuesday March 28, 2017, 9-11am (CDT)**

**LaPorte, IN, March 22, 2017:** The LaPorte County Soil and Water Conservation District invites all contractors to an annual training opportunity. This workshop will provide the essential knowledge to help you make sure your construction site is in compliance with state and local ordinances. Speakers include Al Walus and Lori Gates with Christopher B. Burke Engineering, LLC. As a senior resource planner, Lori is responsible for regulatory compliance with a focus on NPDES compliance. Lori has been with CBBEL for 13 years. With 36 years of experience in the design and construction of large scale industrial and public works projects, Al utilizes his diverse experience to seek sustainable solutions for the infrastructure challenges facing businesses and communities. Light refreshments will be served and the agenda is as follows:

9:00 to 9:15 – Introductions; 8-minute MS4 Video titled, “Why is Stormwater Quality Important for Your Community?”

9:15 to 9:45 – “Effective Maintenance Strategies for Best Management Practices” (Al Walus – CBBEL)

- Regulatory and Permitting Approval Process
- Consultants, Inspectors and BMP Providers as Partners
- Documentation and Inspections
- Best Management Practices

9:45 to 10:00 – Vendor demonstration on charcoal brick dewatering

10:00 to 10:05 – Break

10:05 to 10:35 – “Inspectors’ Responsibilities”

- What should occur on each site before, during and after the self-inspection

10:35 to 11:00 – “You’re the Inspector”

- Mock Inspections Using Photo Arrays and Self-Inspection Sheets

Please contact Nicole Messacar at (219)326-6808, ext. 2115 or [nmessacar@laportecounty.org](mailto:nmessacar@laportecounty.org) with any questions.

**For Immediate Release**



# "BACK TO BASICS" CONTRACTOR WORKSHOP

TUESDAY, MARCH 28, 2017

2857 W. STATE RD. 2

LAPORTE, IN

Are you are registered contractor in LaPorte County?

Plan on attending this session. Topics include:

-Stormwater Quality

-Effective Maintenance Strategies for Best Management Practices

-Charcoal brick dewatering

-Inspectors Responsibilities

Contact Nicole Messacar at 219-326-6808, ext. 2115

SPONSORED BY LAPORTE  
COUNTY SOIL AND WATER  
CONSERVATION DISTRICT AND

LAPORTE COUNTY MS4  
COOPERATIVE

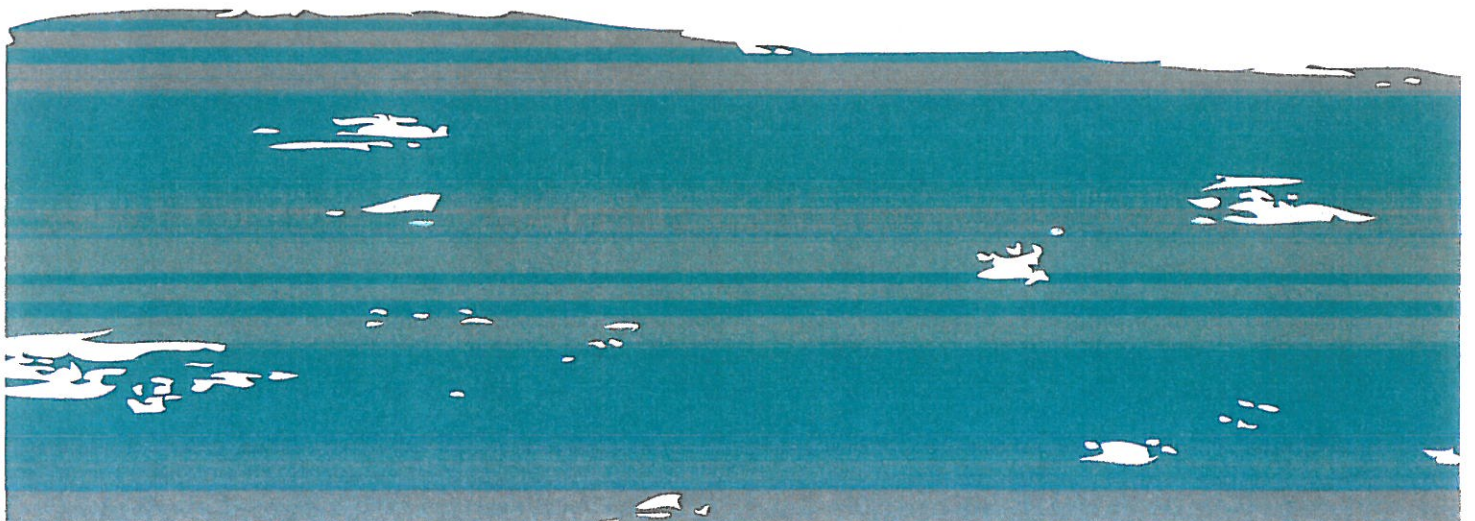




# 2017 REPORT



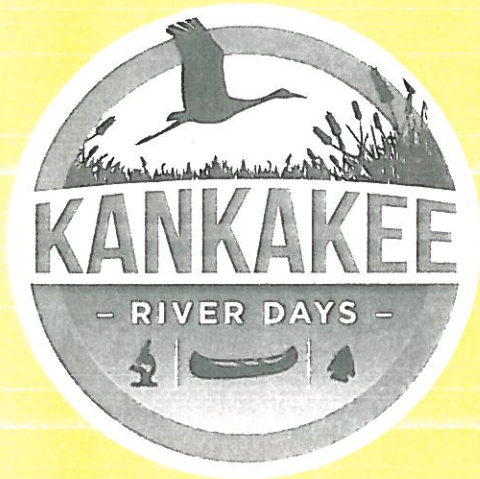
**LaPorte County  
Soil and Water  
Conservation District**





# KINGSBURY FISH AND WILDLIFE AREA

NEW LOCATION FOR 2017



## ABOUT KFWLA

Kingsbury Fish & Wildlife Area is dedicated to providing quality hunting and fishing opportunities while maintaining 7,280 acres of grasslands, crop fields, thick brush, marsh areas and a 30 acre lake. The Kankakee River forms the south boundary. KFWLA is located 4 miles east of U.S. 35 on Hupp Road east of the Kingsbury industrial park. It is 5.5 miles south of LaPorte.

We chose this location due to its access to the Kankakee River and its convenient location to many LaPorte and Porter County Schools. It was so successful that we intend to keep it as a permanent location for Kankakee River Days.

## PARTNERS

- o Indiana Department of Natural Resources
- o LaPorte County Soil and Water Conservation District
- o Northwest Indiana Paddling Association
- o Matt Jones-Atlantis Rising
- o Illinois-Indiana Sea Grant
- o LaPorte County MS4 Cooperative
- o Urban Waters Federal Partnership
- o Wilderness Inquiry

## PARTICIPANTS

- o Hailmann Elementary-LaPorte
- o Bailey Elementary-Chesterton
- o Rolling Prairie Elementary-Rolling Prairie
- o Paul Saylor Elementary-Valparaiso
- o Kingsbury Elementary-LaPorte
- o Handley Elementary-LaPorte
- o Riley Elementary-LaPorte
- o Kingsford Heights Elementary-Kingsford Heights
- o Indian Trail Elementary-LaPorte
- o Crichfield Elementary-LaPorte
- o LaPorte High School-LaPorte



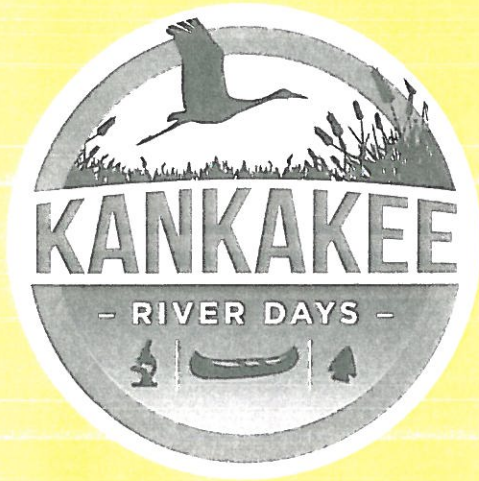
## TOTAL

- **699 Students**



# GRAND KANKAKEE MARSH COUNTY PARK

NEW LOCATION FOR 2017



## ABOUT GRAND KANKAKEE MARSH CO. PARK

Located along the historic Kankakee River, the park is dynamically affected by seasonal flooding. This, along with different natural communities, provides ideal feeding in the fields for a variety of wildlife. Densely wooded areas and the remnants of old river channels provide excellent habitat for a large deer herd, many species of ducks, and other wildlife. Preservation of these natural habitats is one of the primary goals of the Lake County Parks & Recreation Department.

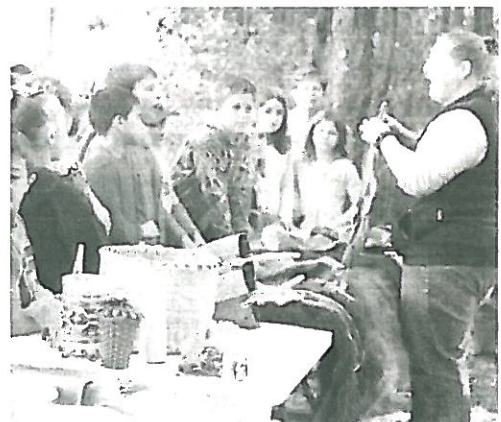
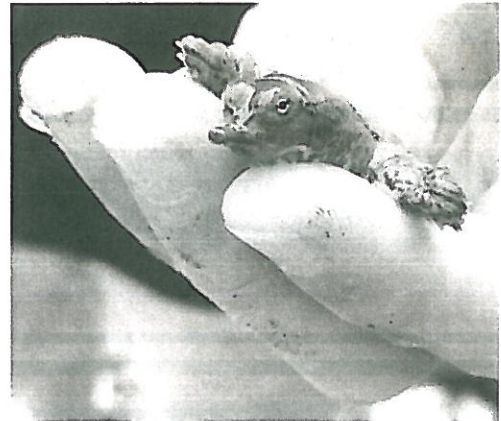
We chose this location due to its access to the Kankakee River and its convenient location to many Lake, Porter and Newton County Schools. It was so successful that we intend to keep it as a permanent location for Kankakee River Days.

## PARTNERS

- o Lake County Parks
- o Izaak Walton League-National and Porter County Chapter
- o Izaak Walton League-Diana Chapter
- o Illinois-Indiana Sea Grant
- o Northwest Indiana Paddling Association
- o Tom Larsen
- o Pokagon Band of the Potawatomi
- o Wilderness Inquiry

## PARTICIPANTS

- o Westville Middle School-Westville
- o Hebron Middle School-Hebron
- o Heavlin Elementary-Valparaiso
- o Central Elementary-Portage
- o St. Patrick Middle School-Valparaiso
- o Union Center Elementary-Valparaiso
- o Morgan Township Elementary-Valparaiso
- o Discovery Charter School-Porter
- o John Simotovich Elementary-Valparaiso
- o Kouts Elementary-Kouts
- o Immanuel Lutheran Elementary-Chesterton



## TOTAL

- 766 Students



# KANKAKEE RIVER DAYS

Almost 1500 students, parents and teachers joined us for ten days on the Kankakee River in October at our two new locations- The Kingsbury Fish and Wildlife Area in LaPorte and the Grand Kankakee Marsh County Park in Hebron.

Generously funded by the Kankakee River Basin Commission, Kankakee River Days is a hands-on, place-based exploration of the Kankakee River, its watershed, history and ecology. Students attend sessions led by local experts on history, water quality, water safety and wildlife and then board a 24 foot wooden Voyageur replica canoe for a paddle on the River.

Programming at each Station is based on 4th Grade State Educational Standards in science and social studies.

Kankakee River Days was designed with the goals of increasing awareness of the current and historical value of the resources, nurturing future stewards and getting more people on the water.

Many partners make the event robust, interesting and educational. These partners work together to reach our goals and create long-term stewards of the great Kankakee River.

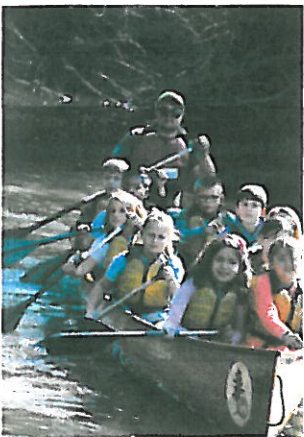


**KANKAKEE  
RIVER BASIN  
COMMISSION**





KINGSBURY FISH AND WILDLIFE AREA







2016 MCM #6- GOOD HOUSEKEEPING QUANTITIES:

Pollutants Potential Reduction

Town of Long Beach:

1) Street Sweeping	
2) Leaves & Brush	6048 cy-wind blown sand 6846cy
3) De-icing	
• Sand	none
• Salt treated	230 tons
• Brine/Beat oil	none
4) Catch Basin Cleaning	5 ea./20 inspected
5) Hazardous Waste (oils)	25 gal.

Town of Trail Creek:

1)Street Sweeping-contracted out	Unknown
2) Leaves & Brush	3270cy
3)Limbs/Brush	in above
4)De-icing	
• Sand	none
• Salt treated	28 tons
• Brine/Beat oil	none
• Trash	10 gal. liquid
5)Catch Basin Cleaning	10 ea.
5)Hazardous Waste (oils)	75 gal.
(other fluids)	33 gal.

Municipality of Laporte:

1)Street Sweeping	2550 cy
2) Leaves & Brush	16,550cy
3)De-icing	
• Sand	---
• Salt treated	2137 tons
4)Hazardous Waste (oils)	680 gal.
(CSO Events)	0 gal.

LaPorte County Highway:	1045 miles maintenance
1) Street Sweeping	N/A
2) De-icing	
• Sand/Salt mix	24,838 tons
• Brine/Beat oil	9750 gal.
3) Bridges designs/repairs	---
4) Brush/Trash Removal	180 man/hrs.
5) Crushed Stone/Slag	1524 tons
6) Stone purchased	8,747 tons
7) Rip-Rap Stone	6450 tons
8) AG Lime	463.2 tons
9) Road Patch	1959 tons
10) Mulch	1155 tons
11) Dirt	2350 tons
12) Fill Sand	4043 tons
13) Asphalt Grindings(re-spread)	50,080 tons
14) Sand (ice)	38,859 tons

Solid Waste District\*:

1) Curbside recycling	7824 tons
2) Household Haz. Waste	55.67 (1907 households)
3) Paper Shredding/Recycle	19.09 tons
4) Yard Waste/Composting	11,012 tons
5) Tire Recycling	146.3 tons
6) Appliance Recycling	16.59 tons
7) Electronics Recycling	242.25 tons

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**Total Waste Removed from Landfills: 19,316.6 tons**

\*Note-Inkjet cartridges, cell phones and books: \$326.68 Donated to Youth Service Bureau

2017 MCM #6- GOOD HOUSEKEEPING QUANTITIES:

Pollutants Potential Reduction

Town of Long Beach:

1) Street Sweeping	12cy
2) Leaves & Brush	6000cy
3) De-icing	
• Sand	none
• Salt treated	310 tons
• Brine/Beat oil	none
4) Catch Basin Cleaning	516ea./22 inspected
5) Hazardous Waste (oils)	18 gal.

Town of Trail Creek:

1)Street Sweeping-contracted out	0-Equipment out of Order
2) Leaves & Brush	3570cy
3)Limbs/Brush	in above
4)De-icing	
• Sand	none
• Salt treated	70 tons
• Brine/Beat oil	none
5)Catch Basin Cleaning	10 ea.
5)Hazardous Waste (oils)	25 gal.
(other fluids)	10 gal.

Municipality of Laporte:

1)Street Sweeping	2700 cy
2) Leaves & Brush	17,240cy
3)De-icing	
• Sand	---
• Salt treated	1925 tons
4)Hazardous Waste (oils)	535 gal.
(CSO Events)	0 gal.

LaPorte County Highway:	1045 miles maintenance
1) Street Sweeping	N/A



2) De-icing	
• Sand/Salt mix	27,661 tons
• Brine/Beat oil	2994 gal.
3) Bridges designs/repairs	---
4) Brush/Trash Removal	180 man/hrs.
5) Crushed Stone/Slag	1,524 tons
6) Stone purchased	9,441 tons
7) Rip-Rap Stone	1,346 tons
8) AG Lime	1,555 tons
9) Road Patch	1,956 tons
10) Mulch	40cyds
11) Dirt	2,410 tons
12) Fill Sand	2,744tons
13) Asphalt Grindings(re-spread)	46,118 tons
14) Sand (ice)	20,481 tons

Solid Waste District\*:

1) Curbside recycling	7856.8 tons
2) Household Haz. Waste	58.86 (252 households)
3) Paper Shredding/Recycle	15.07 tons
4) Yard Waste/Composting	5188.3 tons
5) Tire Recycling	38.35 tons
6) Appliance Recycling	13.7 tons
7) Electronics Recycling	277.19 tons

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**Total Waste Removed from Landfills: 13,448.5 tons**

\*Note-Inkjet cartridges, cell phones and books: \$326.68 Donated to Youth Service Bureau

## **List of Revisions Made to CSOOP for 2017 Submittal**

### **General Format Revisions:**

Future annual revisions will be named Revision 2.XXXX where XXXX is the year of submittal. This year's revision is 2.2017.

### **Specific Content Revisions:**

Page 7 of 51, Updated Section 1 - Update last paragraph to include most recent CSO overflow event.

Page 9 of 51, Section 1.1 - Updated table to reflect NPDES Permit update and submission of the 2017 CSOOP.

Page 16 of 51, Section 2.2.1 - Update Section on Physical Condition to include new sanitary sewer and a lift station for La Porte's Municipal Airport

Page 16 of 51, Section 2.2.2 - Update Table to include additional 1,000 foot of 8" PVC sewer and 1,900 foot of 10" PVC sewer due to installation of sanitary service for La Porte's Municipal Airport.

Page 17 of 51, Section 2.2.4 - Update number of lift stations from 32 to 33 indicating the addition of the Airport lift station.

Page 18 of 51, Section 2.2.4 - Corrected misspelling from "its location in noted" to "its location is noted". Updated number of remotely monitored lift stations to 25.

Page 20 of 51, Section 2.3 - Updated table to include current year and average daily flow.

Page 22 of 51, Section 2.4 - Updated CSO diversion table to include overflow that occurred during 2017.

Page 22 of 51, Section 2.5 - Corrected to reflect that there were three CSO Overflows since 2008.

Page 23 of 51, Section 2.5 - Updated listed dates of CSO Overflow events.

Page 24 of 51, Section 2.7 - Moved map images to same page as Effluent Standards Section.

Page 25 of 51, Section 2.7 Table - Updated Monitoring Frequency of copper and cyanide parameter to quarterly as stipulated in revised NPDES permit.

Page 27 of 51, Section 3.4 - Updated status of Sewer Use Agreements with the 39N District and the Pine Lake District.

## **List of Revisions Made to CSOOP for 2017 Submittal**

Page 28 of 51, Section 3.5 - Updated table to include secondary Arconic facility.

Page 28 of 51, Section 3.5 - Updated the number and classification of industrial violations for 2017.

Page 28 of 51, Section 3.6 - Updated to include future replacement of the two more existing pumps with installation of two new Rotary Trickling filter VFD pumps.

Page 31 of 51, Section 4.2 - Updated the priority list and the blockages table to reflect 2017s blockages.

Page 31 of 51, Section 4.2 - Updated the Figure 1-9 Blockages map to show blockage locations for 2017.

Page 34 of 51, Section 4.5 - Removed older cleaning data from 2009 to 2011. Updated the sewer cleaning data to reflect the 47,365 feet of sewer cleaned in 2017.

Page 34 of 51, Section 4.5 - Updated the Figure 1-11 and Figure 1-12 Sewer Lines cleaned maps to reflect the 2016/2017 years.

Page 35 of 51, Section 4.6 - Updated map to show addition of the Airport lift station. Reflect the number of lift stations that are now converted over to cellular SCADA from the Zetron system and the number of stations that have emergency generators.

Page 36 of 51, Section 4.7.1 - Removed reference to 2011 data. Updated to include the 6 catchbasins that were repaired in 2017.

Page 36 of 51, Section 4.7.2 - Removed reference to 2011 data. Updated to include the 2 manhole structures added and 3 castings and lids that were replaced in 2016.

Page 41 of 51, Section 5.4.1 - Update table containing 5 highest diversion flows to reflect 2017 numbers. Update equipment to reflect new Teledyne flow meter.

Page 45 of 51, Section 5.6 - Update flow modeling section to incorporate current flowmeter study being performed on K Street area.

Page 49 of 51, Section 5.8.2 - Updated to note installed Trickling Filter VFD drives and also the planned renovation of the grit/screening area.

Page 50 of 51, Section 6.2 - Updated the collection system goals for 2017. Update locate requests numbers.

Page 51 of 51, Section 6.4 - Updated the lift station section to continue to reflect the goals that were not accomplished during the 2017 year.

## Sewer and Storm Drain Repairs 2017

	<b>Date</b>	<b>Vendor</b>	<b>Amount (\$)</b>
1	1/3/2017	Pavey Excavating Co.	\$819.00
2	3/2/2017	Pavey Excavating Co.	\$6,151.00
3	3/17/2017	Pavey Excavating Co.	\$5,002.79
4	4/7/2017	Pavey Excavating Co.	\$1,856.21
5	04/27/20017	Pavey Excavating Co.	\$992.18
6	4/28/2017	Pavey Excavating Co.	\$4,534.50
7	5/17/2017	Pavey Excavating Co.	\$600.00
8	5/23/2017	Pavey Excavating Co.	\$1,774.47
9	6/16/2017	Pavey Excavating Co.	\$4,088.00
10	6/20/2017	Pavey Excavating Co.	\$6,911.75
11	7/12/2017	Pavey Excavating Co.	\$370.95
12	7/28/2017	Pavey Excavating Co.	\$1,142.80
13	8/8/2017	Pavey Excavating Co.	\$750.00
14	9/18/2017	Pavey Excavating Co.	\$13,495.95
15	10/2/2017	Pavey Excavating Co.	\$849.35
16	11/30/2017	Pavey Excavating Co.	\$2,800.00
	<b>Total</b>		<b>\$52,138.95</b>

Description
Manhole Repair - Boyd and SR35
Manhole Repair - Lincolnway, Detroit, and Washington St
Catch Basin Repair - Tipton and Grove St.
Manhole Install - 218 "A" Street
510 "H" Street
Manhole - Division and Scott Street
Catch Basin Repair - East Shore Court
Manhole Repair - 211 Grandview
Catch Basin Repair - Noble and Jackson Streets
Replace Catch Basin - Maple and Rumely Streets
Catch Basin Repair - Darrow and Factory Streets
Catch Basin Repair - 109 David Court
Install Force Main - 18th and "I" Streets
1815 Michigan Ave
Orchard Bluff
Re-route Sewer - 1106 Ridge Street



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: Mr. Richard Mrozinski, President of County Commissioners. MS4 Operator

Signature: \_\_\_\_\_



04-17-2018

(mm/dd/yyyy)