



# **MS4 PROGRAM**

**MCHENRY COUNTY**

**WATER RESOURCES ACTION PLAN – TASK FORCE MEETING**

**AUGUST 14, 2019**

**WOODSTOCK, ILLINOIS**

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# WHAT CONSTITUTES AN MS4?

- MS4 = MUNICIPAL SEPARATE STORM SEWER SYSTEMS
- IT FOCUSES ON URBANIZED AREAS, SO SOME SMALL COMMUNITIES MAY BE INCLUDED IF THEY ARE PART OF A LARGER URBANIZED AREA
- IT IS PRIMARILY MUNICIPALITIES, BUT CAN INCLUDE STATE, LOCAL AND TOWNSHIP DOTs, UNIVERSITIES, MILITARY BASES, AND OTHER LARGE ENTITIES.
- IT IS NOT JUST STORM SEWERS – IT CAN ALSO INCLUDE DRAINAGE SYSTEMS AND DITCHES

# WHO IS INCLUDED?

- URBANIZED AREAS ARE DEFINED BY THE CENSUS BUREAU AS:
  - A CENTRAL PLACE OR PLACES
  - AND THE ADJACENT DENSELY SETTLED SURROUNDING AREA
  - THAT TOGETHER HAVE A RESIDENTIAL POPULATION OF AT LEAST 50,000 PEOPLE
  - AND AN OVERALL POPULATION DENSITY OF AT LEAST 500 PEOPLE PER SQUARE MILE.
- SMALLER COMMUNITIES MAY BE INCLUDED BECAUSE THEY ARE ADJACENT TO LARGER COMMUNITIES

# WHY IS THIS PROGRAM IMPORTANT?

- TO PROTECT OUR WATER RESOURCES IN OUR COMMUNITIES FROM CONTAMINATED RUNOFF DURING RAIN EVENTS
- TO EDUCATE PEOPLE THAT EVERYDAY ACTIVITIES CAN POLLUTE STORMWATER
  - PET WASTES, LAWN CHEMICALS, CAR WASHING, CHANGING YOUR OWN OIL, ETC.
  - POLLUTANTS IN INDUSTRIAL AND COMMERCIAL AREAS
  - SEDIMENT FROM CONSTRUCTION SITES THAT RUNS OFF INTO LAKES AND STREAMS AND KILLS AQUATIC LIFE AND AFFECTS WATER QUALITY
  - SMART DEICING PRACTICES FOR WINTER TO REDUCE CHLORIDES

# CURRENT MS4 PERMIT FOR ILLINOIS

- **GENERAL PERMIT**

- EFFECTIVE DATE: MARCH 1, 2016
- EXPIRATION DATE: FEBRUARY 28, 2021

- PROGRAM HAS BEEN IN PLACE SINCE 2003 FOR SMALL (LESS THAN 100,000 POPULATION) MS4 COMMUNITIES

# GENERAL OVERVIEW

- **BASIC REQUIREMENTS**

- SUBMIT AN NOTICE OF INTENT FOR COVERAGE
- DEVELOP AND IMPLEMENT A STORMWATER MANAGEMENT PROGRAM, INCLUDING THE 6 MINIMUM CONTROL MEASURES
- DEVELOP AND IMPLEMENT A WQ MONITORING PLAN FOR COMMUNITIES WITH POPULATION  $\geq 25,000$ . (VISUAL MONITORING FOR  $< 25,000$ )
- SUBMIT ANNUAL REPORTS
- POST NOI, SWMP AND ANNUAL REPORTS ON WEBSITE

# 6 MINIMUM CONTROL MEASURES

- PUBLIC EDUCATION AND OUTREACH
- PUBLIC INVOLVEMENT AND PARTICIPATION
- ILLICIT DISCHARGE DETECTION AND ELIMINATION
- CONSTRUCTION SITE STORM WATER RUNOFF CONTROL
- POST-CONSTRUCTION SW MANAGEMENT IN NEW DEVELOPMENT & REDEVELOPMENT
- POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

# PUBLIC EDUCATION AND OUTREACH

## • **DISTRIBUTE EDUCATIONAL MATERIALS TO THE COMMUNITY ABOUT STORMWATER POLLUTION**

- HOW ARE YOU GETTING YOUR MESSAGE OUT TO YOUR COMMUNITY?
- SOME EFFECTIVE WAYS:
  - E-NEWSLETTER
  - INCLUDING INFO IN OTHER MUNICIPAL MAILINGS
  - MUNICIPAL CALENDARS
  - PROVIDING INFO AT MUNICIPAL EVENTS
  - PROVIDING INFO AT CITY HALL, COMMUNITY CENTERS, LIBRARY
  - LINKS ON MUNICIPAL WEBSITE AND MAYBE LIBRARY AND PARK DISTRICT WEBSITES

# PUBLIC INVOLVEMENT AND PARTICIPATION

- AT LEAST ONE PUBLIC MEETING ANNUALLY ABOUT MS4 PROGRAM.  
**MAKE SURE PUBLIC HAS ADEQUATE NOTICE THAT PROGRAM WILL BE DISCUSSED.**
- WHAT STORMWATER RELATED EVENTS/ACTIVITIES DO YOU DO AS A COMMUNITY TO INVOLVE THE PUBLIC (STREAM CLEAN-UPS, ROADSIDE LITTER PICK-UPS, VOLUNTEER EDUCATORS)?
- WHAT GROUPS COULD YOU PARTNER WITH?

# ILLICIT DISCHARGE DETECTION AND ELIMINATION

- ADDRESSES CONTAMINANTS THAT COULD BE PRESENT IN STORMWATER
- DEVELOP, IMPLEMENT AND **ENFORCE** AN IDDE PROGRAM
- STORM SEWER MAP, SHOWING OUTFALL LOCATIONS AND RECEIVING WATERS
- LOCAL PROHIBITIONS FOR NON-STORMWATER DISCHARGES (TO EXTENT POSSIBLE)
- EDUCATE BUSINESSES ON ILLICIT DISCHARGES AND REPORTING REQUIREMENTS (PROCESS WATER DISCHARGES, SPILLS, ETC.)
- ARE ANY OF THE ALLOWABLE NON-STORM WATER DISCHARGES SIGNIFICANT CONTRIBUTORS OF POLLUTANTS IN YOUR COMMUNITY?

# IDDE, CONTINUED

- CONDUCT PERIODIC DRY WEATHER INSPECTIONS OF STORM SEWER OUTFALLS TO CHECK FOR NON-STORMWATER DISCHARGES OR ILLEGAL DUMPING
  - **INSPECT PRIORITY OUTFALLS ANNUALLY, ALL OTHERS CAN HAVE ROTATING SCHEDULE**
- WHAT ARE YOUR POLLUTANTS OF CONCERN AND HOW CAN YOU REDUCE THEM?
- HOW CAN THE PUBLIC CONTACT YOU IF THEY SEE AN ILLICIT DISCHARGE?

# CONSTRUCTION RUNOFF CONTROL

- DEVELOP, IMPLEMENT **AND ENFORCE** A STORMWATER CONSTRUCTION PROGRAM
  - PLAN REVIEWS, INSPECTIONS, ENFORCEMENT, COMPLAINT RESOLUTION
- AT MINIMUM ADDRESS SITES THAT DISTURB ONE ACRE OR MORE OR ARE PART OF A LARGER COMMON PLAN OF DEVELOPMENT
- INCLUDE SW EROSION AND SEDIMENT CONTROLS
- CONTROL OR PROHIBIT NON-SW DISCHARGES (FUEL SPILLS, CONCRETE WASHOUT) THAT COULD CAUSE POLLUTION

# POST-CONSTRUCTION STORM WATER MANAGEMENT

- DEVELOP, IMPLEMENT **AND ENFORCE** PROGRAM
  - MINIMIZE VOLUME AND POLLUTANT LOADING OF SW
  - MINIMUM FOR SITES  $\geq$  ONE ACRE
- DEVELOP AND IMPLEMENT STRATEGIES FOR STRUCTURAL AND NON-STRUCTURAL BMPs THAT HELP TO ADDRESS WATER QUALITY AND QUANTITY
- ENCOURAGES INFILTRATION PRACTICES, EXCEPT WHERE HIGH POTENTIAL FOR GROUNDWATER CONTAMINATION

# POLLUTION PREVENTION/GOOD HOUSEKEEPING

- DEVELOP OPERATION AND MAINTENANCE PROGRAM FOR MUNICIPAL OPERATIONS, SUCH AS PUBLIC WORKS ACTIVITIES
- USE EFFECTIVE POLLUTION PREVENTION MEASURES
  - WHAT DOES THE MS4 USE OR DO ON PUBLICLY OWNED SITES THAT MIGHT CONTAMINATE STORMWATER?
  - HOW CAN YOU REDUCE OR ELIMINATE THAT POLLUTANT POTENTIAL?
  - HOW DO YOU ADDRESS LEAKS OR SPILLS?
  - HOW DO YOU ADDRESS SALT STORAGE AND USE?

# DEICING OPERATIONS/CHEMICAL STORAGE

- STORE DEICING MATERIALS IN A PERMANENT STORAGE STRUCTURE (AS OF 3/1/18)
- MINIMIZE POLLUTANT RUNOFF FROM STOCKPILES AND IN LOADING/UNLOADING AREAS
- FERTILIZERS, PESTICIDES AND OTHER CHEMICALS SHOULD BE STORED INDOORS

# MONITORING IMPLEMENTATION

- IF LESS THAN 25,000, YOU JUST NEED TO CONTINUE VISUAL MONITORING. (OPTION 2A)

**DOCUMENT THIS!**

# MONITORING, CONT.

- IF 25,000 OR MORE, CHOOSE YOUR MONITORING OPTION:
  - OPTION 1, IF YOU HAVE A LOT OF GOOD BMPS, YOU CAN USE PUBLISHED RESEARCH TO SHOW THE EFFECTIVENESS OF THESE.  
**(NOTE: BMPS HAVE TO BE MAINTAINED TO BE EFFECTIVE.)**
  - OPTION 2B, YOU HAVE YOUR CHOICE OF 10 DIFFERENT WAYS TO DO WATER QUALITY MONITORING OR STREAM ASSESSMENT.  
**CONSIDER PARTNERING ON THIS – YOUR UPSTREAM IS SOMEONE ELSE'S DOWNSTREAM AND VICE-VERSA.**

# MONITORING, CONT.

- IS THERE EXISTING DATA THAT CAN BE USED TO SUPPLEMENT YOUR MONITORING? THIS MIGHT HELP TO LIMIT YOUR SCOPE AND COSTS
- DO YOU HAVE PRIORITY POLLUTANTS, SUCH AS CHLORIDES, FECAL COLIFORM OR SEDIMENTS? THIS CAN HELP YOU FOCUS YOUR MONITORING PROGRAM OR TARGET AREAS

# HELPFUL LINKS .....

- **FOR ENVIRONMENTAL JUSTICE INFORMATION:**

- [HTTP://WWW.EPA.ILLINOIS.GOV/TOPICS/ENVIRONMENTAL-  
JUSTICE/EJ-POLICY/INDEX](http://www.epa.illinois.gov/topics/environmental-justice/ej-policy/index)

- **FOR CLIMATE CHANGE INFORMATION:**

- [HTTPS://CLIMATE.NASA.GOV/](https://climate.nasa.gov/)

# FOR MORE INFORMATION

## FOR PERMIT INFORMATION AND FORMS:

[HTTPS://WWW2.ILLINOIS.GOV/EPA/TOPICS/FORMS/WATER-PERMITS/STORM-WATER/PAGES/FORMS.ASPX](https://www2.illinois.gov/epa/topics/forms/water-permits/storm-water/pages/forms.aspx)

## FOR GUIDANCE DOCUMENTS:

[HTTPS://WWW.EPA.GOV/NPDES/STORMWATER-DISCHARGES-MUNICIPAL-SOURCES](https://www.epa.gov/npdes/stormwater-discharges-municipal-sources)

# CONTACTS

## FOR GENERAL QUESTIONS:

STORMWATER COORDINATOR: MELISSA PARROTT

([melissa.parrott@illinois.gov](mailto:melissa.parrott@illinois.gov))

ALSO: TERRI LEMASTERS AND BRANT FLEMING

PERMIT SECTION – SPRINGFIELD: (217) 782-0610

## OR CONTACT YOUR REGIONAL IEPA OFFICE:

DES PLAINES: (847) 294-4000 (CURRENTLY ALSO COVERING BOONE, DEKALB, LEE, OGLE, WINNEBAGO, STEPHENSON, AND JO DAVIESS COUNTIES IN ROCKFORD REGION)

PEORIA: (309) 671-3022 (CURRENTLY ALSO COVERING 9 COUNTIES IN ROCKFORD REGION)

# QUESTIONS?

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