What is a Public Education and Involvement Plan Anyway?!



INAFSM Conference September 13, 2023



Agenda

- 1. Introduction
- 2. Key Components of the Plan
- 3. Building Your Plan
- 4. Tracking Public Education Materials
- 5. Group Discussion

Introduction



What is the goal of a Public Education & Involvement Plan?



The Plan should inform groups about stormwater runoff impacts

PUBLIC EDUCATION AND INVOLVEMENT MCM	
Update Public Education/Involvement Plan	4.3(a)
Identify 3 Local Stormwater Quality Issues	4.3(a)(2)
Plan for Public Education & Involvement	4.3(a)(1)
Plan for Distribution of Educational Materials	4.3(b)(2)
Implement Education & Involvement Plans	
Develop Educational Materials	4.3(a)(4)
Conduct Two Events Annually	4.3(a)(3)
Maintain List of Educational Materials Used	4.3(d)
Annual Training for Builders, Developers, etc.	4.3(a)(5)
Annual Update to Local MS4 Web Page	4.3(c)
Annual Program Assessment/Improvement Plan	4.3(g)

Key Components of the Plan



Identify & Plan





 Identify 3+ community wide stormwater quality issues
 Target at least one event during the permit cycle to each of the following groups:

- Construction
- Residential
- Commercial & industrial



Host Events for Constituents





 ✓ Conduct 2+ public events <u>annually</u> or work collaboratively with other entities to achieve this requirement





Education & Training

✓ Develop educational materials

✓ Distribute materials at outreach opportunities



 Provide annual training for builders, developers, contractors, engineers, etc. related to the construction site run-off and post-construction MCMs
 The training may be completed in cooperation with other entities

MS4GP 4.3(a)(4)

Illicit Discharge & Waste Disposal Education

MS4GP 4.3(c)

✓ Develop and implement a program for educating public employees, schools, businesses, and the general public about illicit discharges and proper disposal of waste.

✓The educational effort must include but is not limited to:

- ✓ Informational brochures and guidance documents that target specific audiences and;
- ✓ An <u>outreach plan</u> for distribution of educational materials.



Annual

Conduct 2 public events

Contractors' training

Update stormwater/MS4 web page

Conduct construction event

Maintain

educational

materials list

Permit Term

Identify target constituents Identify 3+ community stormwater quality issues

Conduct residential event

Conduct industrial/commercial event

Elected official/advisory board update

IDDE education program

Building Your Plan

Are you a new MS4...?

 Newly designated MS4s must complete, sign, and submit a certification form to IDEM within 180 days of program development or the initial NOI submittal date, whichever comes first

- ✓ IDEM MS4GP Schedule of Compliance – start date is April 12, 2023
- ✓ Certification should be completed & submitted by October 12, 2023



(typed or printed)

MS4GP

4.3(f)

Identify & Plan



- Choose stormwater issues that may already exist in your community
- \checkmark Identify events or outreach that occur
- \checkmark Decide if new events need to be held
- ✓ Reach out to potential partners
- ✓ Choose measurable goals and timelines

Identify & Plan

✓Where possible, identify issues that correspond to existing community stormwater problems

✓Utilize:

✓ Outfall dry weather screening results

✓Complaint data

Construction inspection reports



- Pre-treatment program inspections/reports
- ✓ SWMD/HHW collections data





HELP SHEET

SWQMP - MCM 1 & 2 Prepared by the INAFSM Stormwater Committee April 2022 Revised

COMMUNITY STORMWATER ISSUES

This document is intended to assist MS4s in identifying community stormwater issues per Section 4.3 Public Education, Outreach, Participation, and Involvement MCM. These activities or programs may already be occurring in your MS4 and could be coordinated with 4.3 (a)(2), (a)(3) and (a)(5). These could be in the form of training checklists, educational brochures, webinars, videos, social media posts, fact sheets, utility mailers, meetings, etc.

Construction:

- Contractor or builder workshops
- Educational materials provided with building normite
- Review/training checklist for contractors & builders on the basics of the MS4's ordinance, plan review process, review procedures, and web locations for ordinances, standards, and forms
- Develop a fact sheet on good vs. bad for soil tracking to roads (use pictures!)
- Conduct preconstruction meetings and review how the local process is administered.
- How to spot improper concrete washout & other failing best management practices
- Importance of secondary containment and use on iobsites
- Preventing jobsite waste and debris pollution

Residential:

- Proper placement for grass clippings (mow inward)
- · Leaf collection dates, where to place (not in the streets or on a stormwater inlet)
- · How to compost yard waste
- Litter pick-up in your neighborhood
- Community recycling programs and Household Hazardous Waste collection events
- Dog parks poo pick up
- Preferred locations for residential car washing
- Local requirements for fundraiser car washing
- Pressure washing surfaces and equipment
- · Where and how to properly discharge pool water at the end of the season
- Environmentally friendly deicing tips
- Stormwater Utility education
- Survey residents on the best method for outreach - social media, paper, mailers, utility bill stuffers, etc.
- Property owner responsibilities for waterways. outfalls, ponds, wetlands, and floodways
- Ways to conserve water with rain gardens and rain barrels
- What is pollution and where or how to report it (provide IDDE ordinance link)

- Checklist for contractors & builders to ensure implementation for self-monitoring and Project Management Log that meets the local ordinance
- Provide websites for concrete washout educations/videos and have the contractor/builder attest that they reviewed
- Provide information on what is expected after a MS4 inspection - corrective actions, timeframe, documentation, etc.
- Develop an SOP for internal processing of plans ٠ (timeframes, contacts, fees, invoicing, long-term recordkeeping, etc.)
- Provide information on proper dewatering techniques, site management, seeding and stabilization practices, and sediment control measures
- Basic understanding of stormwater & drainage, swales, inlets, point vs. nonpoint source, etc.
- Correct home vehicle, mowers & other equipment maintenance (locations and disposal)
- Identifying residential spills and or spills while fueling vehicles at gas stations (Do not top off) Adopt-a-Drain program & help prevent flash
- flooding What are Combined Sewer Overflows
- Wellhead Protection Programs education is provided for septic systems, water wells & abandonment, household chemical application, & pesticide/herbicide/fertilizers application
- Clear or Clean Water Reduction Programs disconnecting roof down spouts and sump pumps from sanitary sewers to the ground
- Residential fats, oils and grease disposal or collection centers
- Planting trees to help with stormwater runoff
- Plant native vegetation and pollinator plants; remove invasive species
- Biological indicators (fish, mussels, macros)
- Stormwater and climate change



HELP SHEET SWQMP – MCM 1 & 2 Prepared by the INAFSM Stormwater Committee April 2022

Coordinate with businesses on their training or

safety days Proper refueling of vehicles and

Industrial and Restaurant fats, oils, and grease

BMPs for bulk salt storage, application, and

Disconnecting roof top and surface drainage

education on tanks, spills & contamination

Wastewater Department inspects industrial

Ask a business to volunteer for river cleanups

Wellhead Protection Programs provide

Utilize existing Pretreatment Program –

using the proper salt type

from sanitary sewers

or Adopt-a-Stream events

Revised

COMMUNITY STORMWATER ISSUES

equipment

programs

sites annually

Industrial/Commercial:

- Proper management of dumpsters and spills and general housekeeping
- Reviewing post-construction BMPs for site infrastructure and required maintenance
- program and how the MS4 Program can be involved
- Where does my site drain to Industrial Stormwater Permit and exclusions to the sewer system)
- Ways to identify active industrial facilities: work Permit Excel Document
- Internal spill procedures and reporting to the municipality
- Facility Maintenance and site BMPs

Available Resources:

Construction:

- IDEM: Storm Water Permitting: Construction / Land Disturbance Permitting
- Stormwater Quality Inspection general education for construction inspections
- Proper Concrete Washout for Contractors
- Construction BMPs Site Access and Preparation
- Construction BMPs Stormwater Runoff/Run on
- Construction BMPs Surface Stabilization
- Construction BMPs Outlet Protection and Grade Stabilization

Residential:

Blue is the New Green ٠ Stormwater Pond Maintenance for Homeowners

Commercial/Industrial:

- Proper Refueling
- Management of Dumpsters and Trash Fact Sheet
- Shop Posters for Municipal Activities similar practices used at industrial sites

Multiple Uses:

- IDEM: Storm Water Permitting: Municipal Separate Storm Sewer Systems (MS4)
- Illicit Discharge Tip Card provide to residential, commercial, industrial and construction
- INAFSM Help Sheet: Educational Resources identifies educational sources for elected official, general municipal employees, construction/post-construction, and municipal activities that could be used for residential, contractors, and industrial/commercial sites.

- Understanding the Industrial Stormwater Permit
 - program (example: drainage into a combined
- with local Pretreatment Programs and the IDEM
- Benefit of sweeping lots and roads
 - Industrial SPCC Training reviews proper secondary containment, bulk fueling, spill response, and routine inspections

Build Partnerships

Most communities already have departments or groups that promote citizen education







- **Residential Education Partnerships**
- ✓ Local schools (K-12 and universities/colleges)
- ✓ Parks Departments
- ✓ Libraries
- ✓ Local scout groups
- Non-profits (watershed action groups, environmental protection groups, etc.)
- Wellhead protection program
- ✓ 4-H/FFA
- ✓ Job shadowing opportunities across departments







Parks&

Recreation



Easy Ways to Educate...



Easy Ways to Educate...

Hart Ditch 2-stage Channel Improvements

Healthy Neighborhoods Need Healthy Environments

We all live in neighborhoods

Our neighborhoods include...food, shelter, water, and safe places for us to grow.

Birds, mammals, fishes, aquatic creatures. insects, bees, butterflies, and moths all need the same things to be healthy and happy in their neighborhoods too.

Hart Ditch/Plum Creek was an environmentally unfriendly place for a long time - but not anymore!

Hart Ditch/Plum Creek had no public access. The nearly vertical stream banks were a danger. Trees fell into the ditch when their soil washed away downstream, causing pollution issues. Flooding along the creek in Town also was a serious problem

Community leaders gathered to find a solution to Hart Ditch/Plum Creek's unhealthy impact on the neighborhoods of people, plants, and animals living near Hart Ditch/Plum Creek. Finding a long-term solution became the highest priority

Lots of very smart folks worked together to re-imagine every possible way to make Hart Ditch/Plum Creek environmentally friendly, healthy for all creatures and an asset for the entire neighborhood.

Graphics & Illustrations by Freelance Illustration



The needs of small creatures were built into the project The aquatic insects were given new homes with the riffles built into the creek, as well as fishes, and native crustaceans. The needs of migrating birds were considered in the planning. Many native trees, shrubs, grasses, and wildflowers were planted for birds and small mammals to rebuild

healthy neighborhoods for their families. Butterfly gardens were designed and planted to care for the needs of pollinators such as butterflies, bees, and moths



Water flowing through a community can be its most incredible beauty and a welcome asset.

Community leaders came together and embarked upon a multi-year project employing dozens of solutions and thousands of hours to transform Hart Ditch/Plum Creek into a beautiful natural asset.

A Do-Over

Little Ca

Top-to-bottom, side-to-side, Hart Ditch/Plum Creek needed a complete do-over. The earth along the creek was resculpted to ensure a healthy flow of water. Hundreds of native trees, shrubs, grasses, and wildflowers were planted along the waterway

Rootwads, J-hooks, rock vanes, and 2-stage benches are also some of the many solutions used for the urban stream restoration of Hart Ditch/Plum Creek.



Constructed in 2022 by Dyer Construction. Designed by Christopher B. Burke Engineering, LTD



What are they? Here are a few ways Hart Ditch/Plum Creek was transformed.



Rock Cross Van

A local long-term

reek could have been a better asset in the Fown of Dyer. Upstream issues caused problems the Town of Dyer had no

ting the creek bed prohibiting a health onment. The waterway constant oding of nearby homes and roadway ting the hospital grounds and nere was no public access to th are nearly vertica





J-hook

s another type of a rock cross vane. J-hooks create

riffles downstream

from the deepe

scouring poo Riffles provide mportant habitat for small water dwelling insects necessary for a healthy stream

Construction Education

- ✓ Close MS4 entities
- ✓ Utilize state and federal resources
 - ✓ IDEM trainings
 - ✓ EPA Construction Inspection Training Course Modules
- Contractors' workshop provide information to all involved with each step of a project
- ✓ Pre-construction meetings and site walks
- ✓ Involve superintendents/contractors in inspections
- \checkmark Focus on the construction related issues you identified

Industrial/Commercial Education Partnerships



- Health Department (FOG program, illicit discharges)
- ✓ Utilities Department
- Provide education to commercial businesses such as restaurants, laundromats, and car washes
- ✓ IDEM industrial stormwater

How do I fund my program?

- ✓ Local funding opportunities
 - ✓ Permit/inspection/SWPPP review fees
 - ✓ Stormwater utilities
 - ✓ General funds
 - ✓ Municipal bonds
 - ✓ Stormwater incentive programs
 - ✓ Local grants

✓ Make sure to allocate portion of the MS4 budget for education!

Tracking Public Education Materials



Track program
 between all staff
 and assign tasks

 ✓ Clip documents to a central location

✓Log staff training

 ✓ Prepare for IDEM audits and annual reports

A - Tasks Identifed in the IDEM MS4 General Permit:	≔ B - Task Type	C - MS4 Citation	@ D - Rule 13	@ E - Template	@ F - MS4 GP DO0	🛗 H - Start Date	🗰 I - End Date	I - Duration	% K - % Complete	🏥 L - Assigned to	🖬 M - Status	-	
CLIENT LOGO	 DOCUMENT DEADLINE TRAINING DATA NEED 	© - DEADLINE ▼ - TRAINING									July 7, 2023		
Tasks Identifed in the IDEM MS4 General Permit:	Task Type	MS4 Citation	Rule 13	Template	MS4 GP DOCS	Start Date	End Date	Duration	% Complete	Assigned to	Status		
PERMIT DOCUMENTS AND REPORTS		•	,			6/13/2022	4/1/2023	293d	55%	-	Review	-	
New Permit Notice of Intent (NOI)		- 6.5	,			6/13/2022	7/5/2022	23d	100%	~	Completed	~	
List of Responsible Individuals		- 4.1 (c)	,			1/3/2023	2/28/2023	57d	90%	-	Review	•	
Water Quality Characterization Report	(1)	- 3.0	-			7/5/2022	12/16/2022	165d	75%	-	Review	*	
Stormwater Quality Management Plan		4.2	,			7/5/2022	12/16/2022	165d	75%	-	Review	•	
Annual MS4 Program Report/Update to Elected Officials		• 4.3 (e)	-			1/3/2023	3/31/2023	88d	0%	-	Review	-	
Prepare Annual MS4 Program Report/Update to Elected Officials		4.3 (e)				1/3/2023	2/28/2023	57d	0%	-	Review	-	
Present Annual MS4 Program Report/Update to Elected Officials		• 4.3 (e)	,			3/1/2023	3/31/2023	31d	0%	-	Review	-	
Document Presentation		- 4.3 (h) (4)				3/31/2023	3/31/2023	1d	0%	-	Review	•	
Annual Report Submnittal to IDEM		-				1/3/2023	4/1/2023	89d	0%	-	Review	*	
Begin Assembling Data for IDEM Annual Report		8.1	,			1/3/2023	2/28/2023	57d	0%	-	Review	-	
Get Signatures on Annual Report		• 8.3	-			3/1/2023	3/10/2023	10d	0%	-	Review		
Submit MS4 Annual Report to IDEM	2	8.2	,			3/13/2023	4/1/2023	20d	0%	-	Review	-	
MS4 STAFF TRAINING						1/3/2023	12/15/2023	347d	0%	-	Active	-	
Staff Responsible for MS4 Implementation (12 Hrs. of Annual Training)		• •	,			1/3/2023	12/15/2023	347d	0%		Active	-	
Staff Member #1 (See "Staff Training Tracker for Status)	(2)	- 4.1 (d)				1/3/2023	12/15/2023	347d	0%	-	Active	-	
PUBLIC EDUCATION AND INVOLVEMENT						40/2/2022	40/00/0000	4404	00/				

Launch demo of education materials tracker

Traditional Options

Excel spreadsheet or electronic files Physical binder or folders

2022 Clean Up Day Summary

Date: April 29th, 2022, from 3:00pm to 5:00 pm

Number of Participants: approximately 27 people

Area Covered: 3-mile radius spread throughout town including but not limited to drainage ditches, city parks, retention ponds, roadsides, and the downtown square area.

Bags if trash collected: 25-30 large industrial size

MS4GP 4.7(n)(1)

Status of Measurable Goals – Annual Report Requirement

✓This includes the status of the MS4 program requirements, compliance schedules, & timetables



 ✓ If objectives are not being met for a specific element, explain the implementation problems encountered, and changes made to resolve problems identified

Group Discussion

What are some existing stormwater issues in your community?

Which types of outreach have you found the most successful and why?

What experiences have you had with unique, successful, positive communication with constituents?

What funding opportunities have you taken advantage of?

How do you track your educational program?

Tips for a successful Public Education program...

- ✓ Plan early and often advertise your events!
- ✓ Revise as needed
- ✓ Don't re-invent the wheel
- ✓ Realize your program will grow over time
- ✓ Take credit for all educational opportunities



Questions?

Emily Myers, CESSWI Resource Planner

emyers@cbbel-in.com

317-266-8000

115 W. Washington St. Suite 1368 South Indianapolis, IN 46204 Vanessa Rainwater Resource Planner

vrainwater@cbbel-in.com

219-663-3410

2100 N. Main St. Suite 314 Crown Point, IN 46307