



# LOWER ALLEN TOWNSHIP

2233 GETTYSBURG ROAD • CAMP HILL, PENNSYLVANIA 17011

June 26, 2014

Pennsylvania Department of Environmental Protection  
Watershed Program Manager  
Southcentral Regional Office  
909 Elmerton Avenue  
Harrisburg, PA 17110

RE: MS4 Annual Report Form  
NPDES Permit Number PAI 133511

Good Morning:

Enclosed please find the MS4 Annual Report Form from Lower Allen Township, Cumberland County for the above referenced Permit. This report is for the report period April 1, 2013 to March 31, 2014.

Please contact our office with any questions.

Sincerely,

Daniel J. Flint, P.E. NSPE  
Community Development Director/Township Engineer

cc: Thomas G. Vernau, Jr., Township Manager  
Erin Trone, Assistant Manager



## MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ANNUAL/PROGRESS REPORT

For the Reporting Period: March 9, 2013 to March 31, 2014

☒ Annual Report    ☐ Progress Report  
☐ New Permittee    ☒ Existing Permittee

Year: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 (Renewal)  
Due Date: June 29, 2014

### GENERAL INFORMATION

Permittee Name: Lower Allen Township	NPDES Permit No.: PA 133511
Mailing Address: 2233 Gettysburg Road	Effective Date: -
City, State, Zip: Camp Hill, PA 17011	Expiration Date:
MS4 Contact Person: Daniel J. Flint, P.E.	Renewal Due Date:
Title: Township Engineer	Admin. Extended? <input type="checkbox"/> Yes <input type="checkbox"/> No
Phone: 717-975-7575	Municipality: Lower Allen Township
Email: dflint@latwp.org	County: Cumberland
Co-Permittees (if applicable):	

### WATER QUALITY INFORMATION

Are there any discharges to waters within the Chesapeake Bay Watershed? ☒ Yes ☐ No

Identify all surface waters that receive stormwater discharges from storm sewers within the MS4 urbanized area and provide the requested information (see instructions).

Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Cedar Run	CWF	No			
Yellow Breeches	CWF	No			

Date TMDL Plan / Chesapeake Bay Pollutant Reduction Plan Submitted to DEP (if applicable): N/A

Identify any Wasteload Allocations (WLAs) identified in TMDLs for the MS4, if applicable. Identify the pollutant(s) and mass load(s):



## GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? ☒ Yes ☐ No

Provide current contact name and phone number information for the required MCMs (if same as page 1, leave blank):

MCM	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts		
#2 Public Involvement/Participation		
#3 Illicit Discharge Detection and Elimination (IDD&E)		
#4 Construction Site Storm Water Runoff Control		
#5 Post-Construction Storm Water Management in New Development and Redevelopment		
#6 Pollution Prevention/Good Housekeeping		

### MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

**BMP #1: Develop, implement and maintain a written Public Education and Outreach Program**

*Measurable Goal: For new permittees a Public Education and Outreach Program (PEOP) shall be developed and implemented during the first year of permit coverage and shall be re-evaluated each permit year thereafter and revised as needed. For renewal permittees, the existing PEOP shall be reviewed and revised as necessary. The permittee's PEOP shall be designed to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.*

- For new permittees only, attach the written PEOP or a summary thereof to the first report submitted to DEP.
- Date of last evaluation of or revision to the PEOP: 3/31/14
- What were the plans and goals for public education and outreach for the reporting period?

See attached

- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? ☒ Yes ☐ No

Explain the rationale for your answer: Good participation/input from audience during various workshops held at the Township Municipal Building

- Identify specific plans and goals for public education and outreach for the upcoming year:

See attached

**BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4**

*Measurable Goal: For new permittees, the lists shall be developed within the first year of coverage under the permit and reviewed and updated as necessary every year thereafter. For renewal permittees, the lists shall continue to be reviewed and updated annually.*

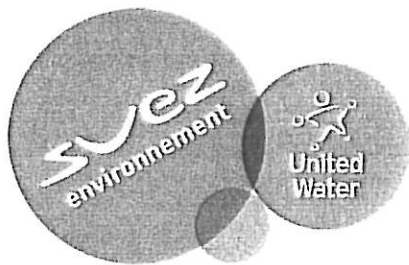
- For new permittees only, attach your target audience list(s) to the first report submitted to DEP.
- Date of last review or revision to target audience list(s): 3/31/14

**Lower Allen Township**  
**MS4 Public Education and Outreach Program (PEOP)**

1. Annually review, evaluate and revise the Public Education and Outreach Program.
2. Review and update lists of target audience groups.
3. Distribute information and materials to target audience groups:
  1. Provide information on Township website
  2. Provide printed materials with permit applications.
  3. Provide information for distribution to the public at the public information counter in the Township Municipal Services Center.
  4. Provide information via Township Facebook account.

**Yellow Breeches Watershed Association Activities  
Affiliated with Lower Allen Township**

**Reporting Period 2013-2014**



# "Trout Day 2014"

**Welcome Anglers and Outdoor Enthusiasts!**

The 13<sup>th</sup> Annual "Trout Day" community event will be held Saturday, March 29<sup>th</sup>, along the Yellow Breeches Creek, at the convergence of Slate Hill and Limekiln Roads in Fairview Township.

United Water Pennsylvania and the Yellow Breeches Watershed Association (YBWA) host the event. Watershed maps and Water Trail brochures will be available at the YBWA table.

Free food & refreshments will be available for attendees from 7:00 a.m. until 1:00 p.m. Donations to YBWA are encouraged.

A streamside clean-up is planned from 10:00 a.m. until 12:00 p.m., in cooperation with the Alliance for the Chesapeake Bay. Gloves, vests, and trash bags will be provided to participants who should meet at the YBWA table at 10:00 a.m.

Sporting Equipment Items will be given away.



FISHING!!!  
FUN!!!

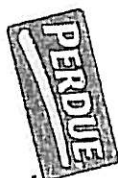


FREE!!!  
FOOD!!!





# Site Results



**IMPORTANT:** Please submit this form by **Monday, April 7<sup>th</sup>** so we can send out a press release and give the cleanups the recognition they deserve!  
Email: [dbrellis@allianceforthebay.org](mailto:dbrellis@allianceforthebay.org) Fax: 443-949-0673 Ph: 443-949-0575

Site Name:

Date of cleanup: 03-29-14

Site Captain: JOHN EBY	Phone: 717-648-1611	Email: jeb@latwp.org	
Site Category (check all that apply)	Trash Cleanup <input checked="" type="checkbox"/>	Tree Planting	Invasive Species Removal
Number of Volunteers: 3	Pounds of trash (1 bag = 25lb): 150		
Number of beverage containers collected: 100	Number of plastic bags collected: 6		
Pounds of invasive plants removed: 0	Number of trees planted: 0		

Interesting Items Found: NONE

Est. acreage or stream miles cleaned (please specify acreage or mileage): 11.95 (9) ACRES RIBARIAN BUFFER

Participating Groups: YELLOW BRETTES WATERSHED ASSOC., WHITE WATERS PA	Did your site receive donations from local businesses?	Yes <input checked="" type="checkbox"/>	If yes, please give donation amount
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Site Conditions (Evidence of major dumping, eroding stream banks or invasive plant species?):

Press received:

NONE - local TV STATION COVERED OPENING DAY OF TROUT SEASON BUT OPTED NOT TO AIR CLEANUP INFORMATION

Bulk Trash Items that require county/city pick up	Yes <input checked="" type="checkbox"/>	If yes, describe items:	Where are the items located? (specific intersection, address or lat & long)
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Suggestions:

3/31/2014

## Trout Day 2014

**This year's edition of "Trout Day" was the 13<sup>th</sup> annual event held by United Water Pennsylvania** along the Yellow Breeches Creek at the R. C. Rabold Water Treatment Plant on Saturday, March 29. The creek level was average and the water was clear for fishing. Experienced anglers were present throughout the cloudy morning. Occasional rain later dampened attendance.

Doughnuts, coffee, hot dogs, sausage, sauerkraut, sodas and water were provided by United Water at no charge. Donations were accepted to benefit the Yellow Breeches Watershed Association (YBWA). An amount of \$200.00 was collected that will be presented to YBWA along with a donation of \$100 from UWPA next week for a total of \$300.

Biggest trout measurements were taken from among the anglers who fished up and down the creek banks. Two groups were given sporting items. We congratulate the following participants:

### Adults (17 participated)

- 1<sup>st</sup> Place – Brandon Reynolds, from New Cumberland, 16" Rainbow Trout
- 2<sup>nd</sup> Place tie – Josh Nelson, from East Berlin, 13 ¼" Rainbow Trout
- 2<sup>nd</sup> Place tie – Joseph Burnham, from Dover, 13 ¼" Rainbow Trout
- 4<sup>th</sup> Place – Dave Frischkorn, from Etters, 13" Rainbow Trout
- 5<sup>th</sup> Place – Josh Auxer, from Etters, 12 ¼" Brown Trout
- 6<sup>th</sup> Place – Bryce Slusser, from York Haven, 1 ½" Brown Trout

### Youths (Age 12 & Under)

- 1<sup>st</sup> Place – Brody Burnham, from Dover, 13" Rainbow Trout
- 2<sup>nd</sup> Place – Tabitha Auxer, from Etters, 12 ¾" Rainbow Trout
- 3<sup>rd</sup> Place – Jairckin Wu, from New Cumberland, 12 ½" Rainbow Trout

Three youths signed-up and all caught a trout during this year's event. Give-away items from UWPA to participants included reels, tackle boxes, fishing nets, lures, weight scales and an umbrella.

**Thanks to all volunteers who assisted with event facilitation:** Bob Eberly, UW Lead Operator, Bob Manbeck, UW Public Affairs Manager, Mark Baker, UW Assistant Manager of Operations, Monica Poziemski, Field Service Rep., Nat Sheffer, T&D Superintendent, Kim McConnell, UW Administrative Coordinator, Chad Bingaman, UW Production Superintendent, John Hollenbach, UW General Manager, and Scott Schreffler, soon to be Relief Plant Operator at the Sixth Street Plant.

Special thanks go to John Eby, YBWA Vice President, for coordinating YBWA's involvement, including posting flyer invitations, setting up tables and displays, and to Brook Lenker, YBWA President, for his assistance with event facilitation.

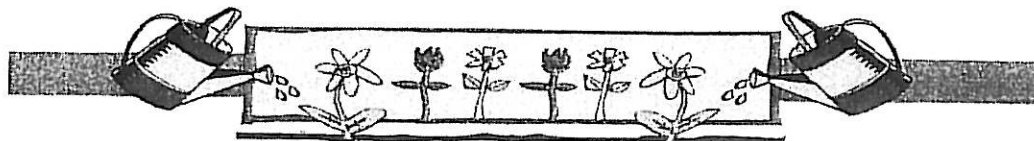
The Yellow Breeches Watershed Association, with support from the Alliance for the Chesapeake Bay, Project Clean Stream program organized a riparian buffer litter cleanup from 10 am – 12 pm. Participants included John Eby, YBWA Vice President & cleanup leader, YBWA Member, Frieda

Eberly and local volunteer, Brian Keister. Volunteers picked up trash along the stream banks along United Water's property. Several large trash bags were filled with items and retrieved for disposal.

Trout Day continues to be an appropriate public relations event for the local community to learn more about the Yellow Breeches watershed and drinking water supply. Many contributors were repeat visitors from previous years, along with a few new to the event, who were invited by those who fish on opening day each year.

Robert B. Eberly Jr.  
Lead Operator  
Mechanicsburg Operation





## **9th Annual Lower Allen Township Gardeners Gathering**

**When: April 20, 2013**

**10:00 AM – 1:00 PM**

**Where: Lower Allen Community Park**

**4075 Lisburn Road, Mechanicsburg, PA 17055**

**(Event will be held Rain or Shine!)**

### **Barn Workshop – Upper Level**

**10:00 AM Rain Gardens** - This two hour session focuses on the benefits of reducing stormwater impacts to your home or local area by using a rain garden. Cumberland County Master Gardener volunteer Rick Egenrieder will provide you with valuable tips on successfully installing and maintaining your rain garden. During the workshop, we will visit a nearby prepared rain garden site and ask participants to learn by helping us to plant our garden. *Please dress for hands-on garden work and bring garden tools along if you have them. Class size is limited to 50, so be sure to register early!*

### **Barn Workshop – Lower Level**

#### **10:00 AM Rain Barrels - Cumberland County Conservation District**

During this two-hour session, Watershed Specialist Vince McCollum will discuss the importance of water harvesting in the garden with your professional-grade rain barrel. Participants will learn how to construct and install their rain barrel as well as hear about ways to control stormwater and protect the quality of the Yellow Breeches Creek. *See below for detailed payment information- Class size is limited to 25, so be sure to register early!*

**\*IMPORTANT:** The Rain Garden workshop is free and the Rain Barrels are available at a reduced price of \$20.00, thanks to the generous support of our sponsors. Please mail your rain barrel check, made payable to *Lower Allen Township* to Donna Paul, Recycling Coordinator at 2233 Gettysburg Rd, Camp Hill, PA 17011. For more information, check out [www.lower-allen.pa.us](http://www.lower-allen.pa.us) or call 975-7575, ext. 1402. **Pre-registration deadline for both workshops is Monday, April 8, 2013.**

#### **12:15 PM Annual Plant Swap – Tot Lot Pavilion**

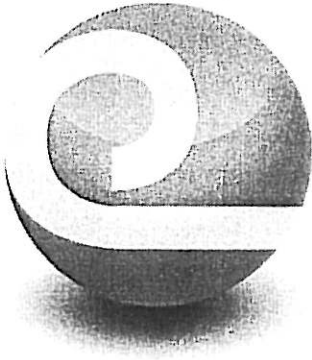
How does it work? Bring your divided perennials (*please provide a pot or container*) between 10:00 AM - 12:00 PM and receive a numbered ticket per plant that you bring; at 12:15, we'll start "raffling off" each plant- you get to take one home for every one you give away! **Limit 10 plants per participant.**

**Join us for a fun-filled day with plenty of springtime excitement...and thanks again to our sponsors: Water Resources Education Network and Pennsylvania American Water!**

\*This workshop has been partially funded by the League of Women Voters of Pennsylvania Citizen Education Fund through a Section 319 federal Clean Water Act grant from the Pennsylvania Department of Environmental Protection, administered by the US Environmental Protection Agency.\*







# CUMBERLAND COUNTY CONSERVATION DISTRICT

## Water Harvesting with Rain Barrels: Why & How

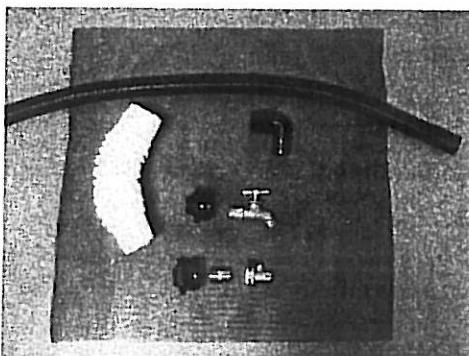
During a thunderstorm, hundreds of gallons of rain water can runoff the roof of an average home. One inch of rain on a 1000 square foot roof produces over 600 gallons of rain water. This water typically ends up running onto streets or other impervious areas, and enters storm sewers and is discharged to streams. Collecting and delaying this water can help in controlling peak storm water runoff during rain events. A simple and inexpensive way to help do this is through the use of a rain barrel.

A rain barrel is a device that collects and stores rain water for later use. Rain barrels can be constructed using a used 55 gallon food grade barrel or something similar, like a plastic trash can or a wooden whiskey barrel. The components of a rain barrel can include; a bottom drain, a spigot, an overflow hose, a screen to keep debris and insects out, and a downspout diverter to carry the water into the rain barrel.



The water harvested by a rain barrel is typically used for flower and vegetable gardening, washing your hands after working outside and potentially washing your car. Using a rain barrel is a great way to conserve your municipal or well water.

**Getting Started – Gather parts and tools** (for detailed parts and price information, refer to Cumberland County Conservation District - Rain Barrel Parts List Sheet)



### Recommended parts

Food grade barrel or similar  
Flexible downspout adapter  
Overflow elbow  
~ 5 feet of sump drain hose  
(2)  $\frac{3}{4}$ " bulkhead fittings  
 $\frac{3}{4}$ " brass hose bibb  
 $\frac{3}{4}$ " MPT x  $\frac{3}{4}$ " male hose adapter  
 $\frac{3}{4}$ " brass shutoff coupling

### Recommended tools

Drill  
 $1\frac{1}{2}$ " hole saw  
Channel locks  
Adjustable wrench  
File  
Hacksaw  
Jigsaw (if using a barrel w/non-removeable lid)

## Gardeners Gathering Wrap-Up

The 9<sup>th</sup> Annual Gardeners Gathering event was held on Saturday, April 20<sup>th</sup>. It was a beautiful spring day to attend the workshops and the ever popular plant swap! A big thank you goes out to all the sponsors, workshop presenters, and Recreation and Parks Board members. We would like to recognize the following businesses for their generous donations: **Black Landscape Contracting, Inc., Highland Gardens, and Royer's Flowers** and to our sponsors: **PA American Water and Water Resources Education Network.**

We would also like to express our gratitude to the following presenters for donating their time and talents: **Rick Egenrieder** (Cumberland County Master Gardener) for presenting the Rain Garden workshop, **Vince McCollum** (Cumberland Conservation District) for his role in conducting the

Rain Barrel workshop and **John Eby** (Yellow Breeches Watershed Association) for presenting ways to control stormwater and protect the quality of the Yellow Breeches Creek.



## Green Tips for the Summer

**Start a Garden** - A garden is economical, fun for the family, and is one of the greenest steps you can take this summer. You will have access to fresh vegetables after a few weeks of maintaining your garden. The types of vegetables that can flourish vary by season, so starting a garden should be a year-round process. You can plant during the spring, summer, and fall and stock up for the winter.

**Water Wisely** - If you're going to water your lawn/garden, do it in the early morning when temperatures are cooler to reduce evaporation. You can also collect rainwater and use it to water your plants, or make a drip irrigation system around your plants.

**Keep Your Lawn Green** - Only mow your lawn when it needs to be mowed. If your grass has grown too tall, cut it only a bit shorter and continue the process until it reaches the height you desire. Also, use organic lawn care. You can make your own organic fertilizer by starting a compost pile in your backyard.

**Entertain the Green Way** - When throwing a party or an outdoor barbecue, use biodegradable or reusable dishes and utensils. Another fun tip: while you're setting up for your party, fill a pitcher with water and some tea bags and place it underneath the hot sun. By the time you're done getting the party ready, you'll have fresh tea for your guests to enjoy.

**Turn off the A/C (when you can)** - While the summer tends to get unbearably hot, you can still find ways to reduce your air conditioning usage. For instance, if you keep your blinds or curtains closed during the day, you can decrease your need for air conditioning. If you simply must have your air conditioning running at all times, set your thermostat 2 degrees higher than normal.



Yellow Yard Waste Recycling Containers are available at :

Municipal Services Center, 2233 Gettysburg Road, Camp Hill, PA  
between the hours of 8:00 am and 4:00 pm.

*Limit one per resident. Replacement containers cost \$10.00 per container.*

LETTERS SENT TO CONTRACTORS REFERENCING  
CONCRETE WASHOUT REGULATIONS

November 21, 2013

Pennsy Supply  
attn: John Rice  
1001 Paxton Street  
Harrisburg, PA 17105

Re: Concrete Washout Regulations

Dear Sir:

Please be aware that we have received an increase in reports and observations of improper cleanup procedures, containment, and disposal of concrete wash water at various job sites within Lower Allen Township. In order for the Township to remain compliant with existing U.S. Environmental Protection Agency (EPA), PA Department of Environmental Protection Agency (DEP), and our own National Pollutant Discharge Elimination (NPDES) permit requirements, we would like to make you aware of the regulatory provisions of the Agencies and the conditions of approval for any work activity or General Permit issued in Lower Allen Township where concrete materials will be used on site.

The Township will be placing the following notation on relevant permits: "Please be advised the holder of this permit is responsible for the proper clean-up of equipment and work area and proper containment and disposal of concrete wash water in compliance with EPA, DEP, and Township regulations. Concrete washout facilities must be provided at the job site prior to delivery of concrete or an alternative method of concrete clean up and disposal must be provided." Strict enforcement of the regulation under Section 184-37 and 184-46 of the Township Code (copies enclosed) will follow. Your assistance in disseminating this information to the appropriate personnel is greatly appreciated.

Additionally, we ask that you and other concrete suppliers in the area help us ensure proper concrete cleanup on project sites in the Township by having your dispatchers or drivers confirm with your customers that approved washout facilities are available prior to delivery. If the customer does not have washout facilities prepared, do not bring concrete into the Township, and have the customer contact our office. Once approved washout facilities are provided, delivery can commence. Alternatively, some concrete suppliers are starting to provide on-board or portable clean-up equipment so wash water leaves the site with the delivery vehicle or is contained until the wash water is evaporated or properly handled.

Please contact me with any comments or questions regarding Township regulations, the pending permit condition note or enforcement. We plan on placing information on the Township website with references and web links to the Township, EPA and DEP regulations, and various approved washout designs. Thanks for your help keeping the Commonwealth waters clean and Lower Allen Township in compliance.

Sincerely,

Raymond J. Allen  
Engineering Technician

**BMP #3: Annually publish at least one educational material on your Stormwater Management Program**

**Measurable Goal:** For new permittees, stormwater educational and informational items shall be produced and published in print and/or on the Internet within the first year of permit coverage. In subsequent years (and for renewal permittees), the list of items published and the content in these items shall be reviewed, updated, and maintained annually. Your publications shall contain stormwater educational information that addresses one or more of the 6 MCMs.

1. For new permittees only, attach your published stormwater educational or informational materials to the first report.
2. Date of last review and/or update to published stormwater education materials: 3/31/14
3. MS4 Website URL (if applicable): \_\_\_\_\_
4. Describe the method(s) used during the reporting period to provide information on stormwater to the public:

Newsletter, public meetings, available at Codes counter

5. Identify specific plans for the publication of stormwater materials for the upcoming year:

Facebook with links to LAT website page & PA Stormwater Network

**BMP #4: Distribute stormwater educational materials to the target audiences**

**Measurable Goal:** All permittees shall select and utilize at least two distribution methods in each permit year. These are in addition to the newsletter and website provisions of BMPs #3 and #4.

Identify the two additional methods of distributing stormwater educational materials during the previous year (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

Twp newsletter, fact sheets in twp display area

**MCM #2 - PUBLIC INVOLVEMENT/PARTICIPATION**

**BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)**

**Measurable Goal:** A new permittee's PIPP shall be developed and implemented during the first year of coverage under this General Permit. All permittees shall re-evaluate the PIPP each permit year and revise as needed. Your PIPP shall include, but not be limited to:

- a. Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this General Permit.
  - b. Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or their receiving waters.
  - c. Making your periodic reports available to the public on your website, at your municipal offices, or by US Mail upon request.
1. For new permittees only, attach the written PIPP or a summary thereof to the first report submitted to DEP.
  2. Date of last review and/or update to the PIPP: 3/31/14
  3. Explain how your PIPP addresses items a, b and c of the Measurable Goal:

See attached

**Lower Allen Township**  
**MS4 Public Involvement and Participation Program (PIPP)**

1. Annually review, evaluate and revise the Public Involvement and Participation Program. This is to be done by Township staff that are involved in various aspects of the MS4 Permit and Programs.
2. Provide methods for public participation in decision making about the MS4 Permit and Programs. This includes the availability of Township staff that are involved in the MS4 Permit and Program during normal business hours, via telephone or e-mail. Contacts with the public regarding this item are documented and follow up is conducted with the contacting party.
3. Provide the availability of routine communications with outside organizations, such as watershed and environmental groups. This includes correspondence regarding activities of the outside organizations, and how those activities correlate with the MS4 Permit and Program.
4. Make Annual Reports available to the public. Reports may be obtained through the Township website or at the Township Municipal services center, utilizing the Right To Know (RTK) procedure.
5. Annually, make a presentation at a legally advertised public meeting on the MS4 Permit and Program.
6. Prior to adopting any ordinance that affects Stormwater Management, provide the opportunity for public comment at a legally advertised public meeting or public hearing regarding the ordinance.

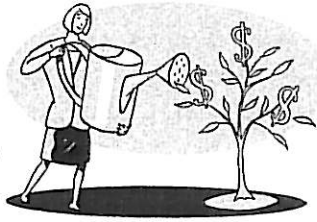
**Lower Allen Township Stormwater Management  
Newsletter Articles**

**Reporting Period 2013-2014**



## Planting A Tree?

*It might save the Township Money*



The Township is required by State and Federal regulations to maintain a permit for our storm sewer drainage system. New requirements will require the Township to plant trees, in order to improve stormwater drainage conditions within the Chesapeake Bay watershed. Credit can be received for trees planted anywhere in the Township, even on private property. If you have recently planted a tree, or plan to do so in the future, please provide that information to the Township. It may help offset costs that the Township will have to incur. Information can be sent to Daniel Flint, Township Engineer, at [df Flint@latwp.org](mailto:df Flint@latwp.org).

## Taking Care of Stormwater

*Caring for your Lawn and Garden*

- Use chemicals, fertilizers, herbicides, and pesticides sparingly. Read labels carefully and DO NOT APPLY if the forecast calls for rain. Clean up excess.
- Use mulch instead of herbicides to prevent weeds from growing and to absorb water.
- Select drought-resistant native plants that conserve water and control runoff.
- Do not over-water your lawn. Water during the cooler times of the day. Allow your lawn to go dormant during a drought.
- Drain swimming pools only when chlorine levels are not detected by your swimming pool test kit.
- Do not put grass clippings in the street or yard waste along curbs or ditches.
- Sweep up debris instead of hosing down the driveway.

For more information on Stormwater Management go to [www.dep.state.pa.us](http://www.dep.state.pa.us)

## Cedar Spring Run Park

At their public meeting on March 26<sup>th</sup>, the Commissioners awarded a contract in the amount of \$34,825 to the Gleim Environmental Group for a riparian buffer and stream bank stabilization project at the Cedar Spring Run Park adjacent to the Municipal Services Center. The purpose of this project is to stabilize and create a forested riparian buffer along the banks, and improve the channel of, the Cedar Spring Run, a spring-fed tributary of the Cedar Run.

The original bid from Gleim Environmental Group was \$72,202, but the scope of the project had to be reduced to match the grant money received for this project from the Growing Greener program of the Pennsylvania Department of Environmental Protection. Some elements, including additional plantings and in-stream fixtures, will be added later by Township staff.



## Garden Plots

Springtime is here and it is time to think of getting outside and planting those flowers and fresh vegetables! The Township has a limited number of *FREE* garden plots, which are located at the Yellow Breeches Park along Sheepford Road. These plots are assigned on a "first reserve" basis, and only available to township residents. If interested, please contact Wendy Hayden at 975-7575 ext. 1401.



## All About Rain Gardens

Building a rain garden (or a couple of rain gardens) in your own yard is probably the easiest and most cost effective thing you can do to reduce your contribution to stormwater pollution. By capturing clean rainwater from your roof, driveway and sidewalks and diverting it into a great looking rain garden where it can slowly soak into the ground, filter contaminants, and keep quantities of clean water from going down the sewer system, you'll have a great looking garden that puts water in its place.

A rain garden can mimic the natural absorption and pollutant removal activities of a forest, meadow, or a prairie and can absorb runoff more



efficiently--sometimes as much as 30% - 40% more -- than a standard lawn. Capturing rainwater in a rain garden, holding the water for a short time, then slowly releasing it into the soil can reduce the rush of a large storm -- quickly, neatly and naturally. Because rain gardens are dug 4" to 8" deep, and in some cases 1' - 2' deep, they hold large quantities of rainwater making their overall construction more cost effective than other green alternatives. Rain gardens also need less technical experience to install and can be installed without permits or heavy equipment.

Rain gardens are one very good option that helps to lower the impact of impervious surfaces and polluted runoff because they are low-tech, inexpensive, sustainable and esthetically beautiful.

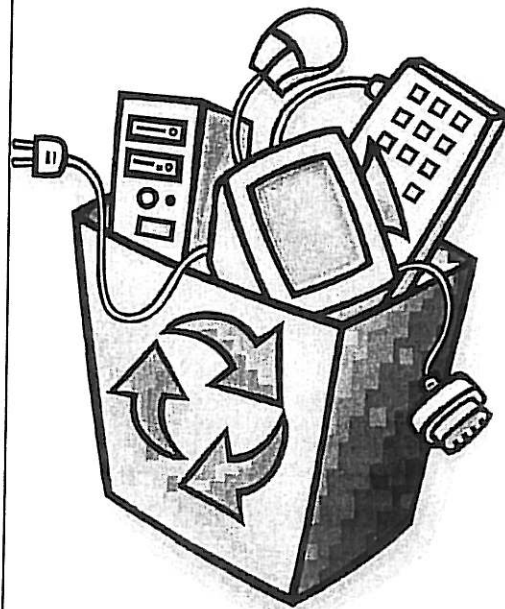
## PA DEP Electronics Recycling Law

According to an article in *Recycling Today*, August 23, 2012, the Pennsylvania Department of Environmental Protection (DEP) has advised consumers and businesses about new rules that went into effect at the beginning of 2013 for recycling electronic devices.

The Pennsylvania Covered Device Recycling Act that was enacted in 2010 prohibits consumers from disposing of covered electronic devices with their trash. This includes computers, laptops, monitors, and televisions. The law stipulates that waste haulers are not to pick up these devices unless the city being serviced has a -curbside collection program for the equipment.

Another part of the law is the requirement that manufacturers of the electronics need to provide for the collection, transportation and recycling of these devices by establishing one-day collection events, permanent collection programs, or mail-back programs.

Consumers can find more information on registered manufacturers and where to recycle devices at [www.dep.state.pa.us](http://www.dep.state.pa.us), using the keyword "electronics recycling."



## LABOR DAY HOLIDAY TRASH & RECYCLING PICK UP SCHEDULE

In observance of the Labor Day holiday on Monday, September 2nd, Republic Services office will be closed and routes will not run on Monday, September 2nd. Service for the week will be as follows: Monday, Tuesday, Wednesday, Thursday and Friday routes will run on a 1 day delay. Regular service will resume the week of September 9th. When a holiday falls on a weekday that is on or before your pick up day, your collection will *always* be delayed by one day. For example:



- Monday will be picked up Tuesday
- Tuesday will be picked up Wednesday
- Wednesday will be picked up Thursday
- Thursday will be picked up Friday
- Friday will be picked up Saturday

### Don't Be A Litter Bug!

*Please help prevent litter.*

- Always dispose of your trash in proper receptacle;
- If you have children, teach them to do the same;
- Carry a litter bag in your car—and use it;
- Never throw anything out your window;
- Always clean up your site after a picnic or other activity;
- Cover trash receptacles tightly when you put them out for collection;
- Secure your load if you carry trash or loose material in a truck.



### Word Search:

#### Don't be a Litter Bug!

N	V	X	Q	D	F	M	G	C	E
H	W	B	D	E	A	B	E	J	A
U	D	C	C	W	S	R	A	E	Q
F	O	I	G	Z	T	V	E	J	W
D	V	G	U	S	F	F	Y	J	H
I	D	A	X	E	O	L	V	I	W
R	M	R	P	K	O	E	G	X	X
T	H	E	P	A	D	H	J	N	C
Y	P	T	X	L	W	H	R	V	P
V	N	T	A	A	R	P	E	S	Y
V	W	E	Y	N	F	V	T	M	W
C	P	S	V	Y	C	W	T	Z	S
L	S	F	W	I	M	I	I	S	T
C	B	Z	U	H	B	L	L	O	R
A	T	I	E	A	N	D	M	E	E
R	C	B	Z	Z	T	L	E	W	A
Y	D	U	F	Y	S	I	I	R	M
Z	I	J	Q	Y	R	F	T	G	S
K	A	B	C	X	Y	E	J	N	P
F	P	E	S	D	A	O	R	X	P

Cigarettes	Highways	Roads
Dirty	Streams	Lakes
Fast Food	Litter	Wildlife

**MCM#2**

**Public Participation**

**Lower Allen Township holds 2 public meetings each month. During these meetings time is allotted for public comment related to the MS4 or Stormwater Management.**

**At the March 11, 2014 meeting, Township Engineer, Dan Flint did an overview of the Stormwater Management for the Township.**

## MINUTES

### BOARD OF COMMISSIONERS

### LOWER ALLEN TOWNSHIP

### REGULAR MEETING

MARCH 10, 2014

The following were in ATTENDANCE:

#### BOARD OF COMMISSIONERS

H. Edward Black, President  
Peddrick M. Young, Sr, Vice President  
John T. Titzel  
Richard F. Schin

#### TOWNSHIP PERSONNEL

Thomas G. Vernau Jr., Township Manager  
Erin Trone, Assistant Township Manager  
Frank Williamson, Chief of Police  
Richard Grove, Finance Director  
Daniel Flint, Community Development  
Steven P. Miner, Solicitor  
Julie Echterling, Recording Secretary

President Black called the March 10, 2014 Regular Meeting of the Board of Commissioners to order at 7:00 pm followed by a prayer and the Pledge of Allegiance. He announced Proof of Publication was available for review. Commissioner Bucher was absent with excuse.

#### APPROVAL OF FEBRUARY 24, 2014 REGULAR MEETING MINUTES

Commissioner SCHIN moved to approve the minutes for the February 24, 2014 regular meeting. Commissioner TITZEL seconded the motion. Motion carried 4-0.

#### AUDIENCE PARTICIPATION: ANY ITEM ON THE AGENDA

President Black inquired if anyone in the audience wished to address any item appearing on the agenda. Mr. Tom Williams asked to speak on item 7e, 10b and 10c.

#### PRESENTATION: Annual Stormwater Management Program Presentation related to the Township's Municipal Separate Storm Sewer System (MS4) Permit

Mr. Flint discussed the background of the Township obtaining the MS4 permit. He described, in detail, the six minimum control measures which included: Public Education and Outreach, Public Involvement/Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management in New and Re-Development Activities, and Pollution Prevention/Good Housekeeping for Municipal Operations. Mr. Flint asked if there were any public questions or comments on the plan. The Board asked about the responsibility for water runoff into the Township. Mr. Flint stated that the Township is downstream and if there is any runoff detected, action is required. Discussion ensued.

#### PRESENTATION: Cedar Spring Run Park by Simone Collins

Mr. Peter Simone, Simone Collins, provided the Board with an update of the project. He showed the Board the location of the park on a map. He discussed the master plan that includes a restroom, trails, parking area, fishing area, amphitheater, kids' play area, the fencing and the bridge for the park. He stated the grant amount is \$656,000 and with design costs and the park costs, there could be a shortage of approximately \$47,000. He showed the Board a list of items that could be eliminated to meet budget. He stated he hopes to have the permit in April and go out to bid in May with construction completed by fall.

The Patriot-News Co.  
2020 Technology Pkwy  
Suite 300  
Mechanicsburg, PA 17050  
Inquiries - 717-255-8213

**The Patriot-News**  
Now you know

LOWER ALLEN TOWNSHIP  
2233 GETTYSBURG ROAD  
ACCOUNTS PAYABLE

CAMP HILL

PA 17011

**THE PATRIOT NEWS  
THE SUNDAY PATRIOT NEWS**

**Proof of Publication**

Under Act No. 587, Approved May 16, 1929  
Commonwealth of Pennsylvania, County of Dauphin} ss

Marianne Miller, being duly sworn according to law, deposes and says:

That she is a Staff Accountant of The Patriot News Co., a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, with its principal office and place of business at 2020 Technology Pkwy, Suite 300, in the Township of Hampden, County of Cumberland, State of Pennsylvania, owner and publisher of The Patriot-News and The Sunday Patriot-News newspapers of general circulation, printed and published at 1900 Patriot Drive, in the City, County and State aforesaid; that The Patriot-News and The Sunday Patriot-News were established March 4th, 1854, and September 18th, 1949, respectively, and all have been continuously published ever since;

That the printed notice or publication which is securely attached hereto is exactly as printed and published in their regular daily and/or Sunday/Community Weekly editions which appeared on the date(s) indicated below. That neither she nor said

to be stated in the following is a list of regularly scheduled meeting of the various Boards and Commissions of Lower Allen Township for 2014, unless otherwise stated and advertised in accordance with pertinent statute. Meetings are held in Gosses Hall in the Lower Allen Township Municipal Services Center, 2233 Gettysburg Road, Camp Hill, PA 17011.

**LOWER ALLEN TOWNSHIP 2014 MEETING SCHEDULE**  
Board of Commissioners -  
Reorganization Meeting - 6 pm  
January 6, 2014  
Board of Commissioners - 7 pm (2nd and 4th Monday of each month)  
January 27, February 10 & 24, March 10 & 24, April 14 & 28, May 12 & 27, June 9 & 23, July 14 & 28, August 11 & 25, September 8 & 22, October 13 & 27, November 10 & 24, December 8 & 22  
Development Authority - 6 pm (3rd Monday of the month)  
January 20, February 18, March 17, April 21, May 19, June 16, July 21, August 18, September 15, October 20, November 17, December 15  
Planning Commission - 7 pm (3rd Tuesday of the month)  
January 21, February 18, March 18, April 22, May 21, June 17, July 22, August 19, September 16, October 21, November 18, December 16  
Recreation & Parks Board - 7 pm (4th Wednesday of each month)  
January 22, February 26, March 26;

April 23, July 23, August 27, September 22, October 22, November 19, Park  
s - 6 pm; May 14, May 28, June 11  
Hearing Board - 7 pm (3rd  
Thursday of the month)  
January 16, February 20, March 20,  
April 17, May 15, June 19, July 17,  
August 21, September 18, October 16,  
November 20, December 18.  
\* Tuesday due to holiday,  
\*\* Wednesday due to holiday  
\*\*\* Wednesday due to Primary  
Election  
**LOWER ALLEN TOWNSHIP  
BOARD OF COMMISSIONERS**  
Thomas G. Vernau,

ject matter of said printed notice or advertising, and that all of the allegations of this statement as of publication are true; and knowledge of the facts aforesaid and is duly authorized and empowered to verify this statement on aforesaid by virtue and pursuant to a resolution unanimously passed and adopted severally by the ors of the said Company and subsequently duly recorded in the office for the Recording of Deeds n in Miscellaneous Book "M", Volume 14, Page 317.

This ad # 0002284157 ran on the dates shown below:

December 05, 2013

Sworn to and subscribed before me this 06 day of December, 2013 A.D.

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Holly Lynn Warfel, Notary Public  
Washington Twp., Dauphin County  
My Commission Expires Dec. 12, 2016

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES





# Fact Sheet

Commonwealth of Pennsylvania • Department of Environmental Protection

## Pennsylvania's Storm Water Management Act (Act 167)

Pennsylvania's Storm Water Management Act (Act 167) was enacted in 1978. This Act was in response to the impacts of accelerated stormwater runoff resulting from land development in the state. It requires counties to prepare and adopt watershed based stormwater management plans. It also requires municipalities to adopt and implement ordinances to regulate development consistent with these plans.

### What is accelerated stormwater runoff?

Precipitation that falls on the natural landscape is managed by a system of vegetation, soil, groundwater and surface waters that has formed over time. Natural events shape this system to efficiently handle stormwater through infiltration, evaporation and runoff. When less precipitation is infiltrated into the soil and groundwater or evaporated, either directly to the air or through plants and trees, there is an increase in the volume and rate, or acceleration, of stormwater runoff.

### Why is accelerated stormwater runoff a concern?

As changes to the landscape alter the balance of the natural water cycle, accelerated stormwater runoff causes further impacts to the landscape. Higher volumes and rates of stormwater runoff cause increased soil erosion, greater and more frequent flooding, and reshape surface waters through scour and deposition. It also reduces groundwater levels because less precipitation ends up there and this in turn reduces dry weather stream flows that are fed by groundwater. More soil and other water pollutants are picked up and carried further with accelerated stormwater runoff. Depending on the extent of these impacts, serious safety, property and environmental risks can also result.

### How does development accelerate stormwater runoff?

Changing the soil cover by placing impervious surfaces (pavement, roofs), removing vegetation (grass, plants, trees) and changing the shape of the land and the way water flows across it can all accelerate stormwater runoff. During construction vegetation is removed, soil is exposed, the landscape is reshaped and impervious surfaces are installed. Following construction, some vegetation is replaced, the impervious surfaces prevent infiltration and may attract new pollution sources and the reshaped landscape alters the flow and destination of stormwater runoff.

### How can the impacts of accelerated stormwater runoff be reduced and prevented?

If there is no change from preconstruction to post-construction stormwater runoff volume, rate and quality, accelerated stormwater runoff will be avoided and the impacts prevented. This is accomplished by minimizing changes to the landscape and implementing stormwater management practices that replicate pre-development conditions.

### What is a watershed based Stormwater Management Plan?

Watershed based Stormwater Management Plans provide municipalities with a framework, including model

ordinances and management practices, to control stormwater runoff from new development in a watershed. These plans include standards for managing the quantity and quality of stormwater runoff given the characteristics of the watershed including current and future development plans. The goal is to control post-development stormwater runoff rate, volume and quality to replicate pre-development conditions. This is to prevent additional downstream flooding and to protect water resources and their uses. The Department of Environmental Protection (DEP) may require counties to develop joint plans where a watershed includes land in more than one county.

### How is the public involved in this process?

During the watershed planning process, counties establish plan advisory committees consisting of county and municipal representatives. Counties may also appoint representatives of interest groups and the public. These committees help to define local concerns and develop stormwater control strategies. The processes for county adoption of the plan includes a public hearing. Municipal adoption of ordinances to implement the plan is also an opportunity for public input.

### How are Stormwater Management Plans implemented?

Following adoption of the Stormwater Management Plan by the county and approval by DEP, anyone engaged in construction activities in the watershed is required to implement stormwater management measures consistent with the plan. In addition, each municipality in the watershed covered by the plan must, within six months of DEP's approval, adopt ordinances consistent with the plan. This includes zoning, subdivision and development, building code, erosion and sedimentation and post-construction stormwater management requirements in the municipality. This process is also consistent with municipal obligations under federal National Pollutant Discharge Elimination System (NPDES) permitting requirements for Municipal Separate Storm Sewer Systems (MS4).

### What assistance is available to counties and municipalities?

DEP provides technical, administrative and financial assistance to counties in preparing Stormwater Management Plans. DEP pays for 75% of the costs counties incur in preparing plans, and it approves reimbursements to municipalities for 75% of the allowable costs of preparing plans and enacting, administering and implementing stormwater ordinances.



# The NPDES Permit

## The National Pollutant Discharge Elimination System

---

### Pennsylvania NPDES Permit Program - General Information

The Federal Clean Water Act and the Pennsylvania Clean Streams law requires wastewater dischargers to have a permit establishing pollution limits, and specifying monitoring and reporting requirements. National Pollutant Discharge Elimination System (NPDES) permits regulate household and industrial wastes that are collected in sewers and treated at municipal wastewater treatment plants. Permits also regulate industrial point sources and concentrated animal feeding operations that discharge into other wastewater collection systems, or that discharge directly into receiving waters. More than 200,000 sources are regulated by NPDES permits nationwide.

Permits regulate discharges with the goals of 1) protecting public health and aquatic life, and 2) assuring that every facility treats wastewater. To achieve these ends, permits include the following terms and conditions:

Site-specific discharge (or effluent) limits;

Standard and site-specific management, compliance monitoring and reporting requirements; and

When and if regulated facilities fail to comply with the provisions of their permits, they may be subject to enforcement actions. DEP and EPA use a variety of techniques to monitor permittees' compliance status, including on-site inspections and review of data submitted by permittees.

Technical assistance is also available to facilities struggling with NPDES compliance.

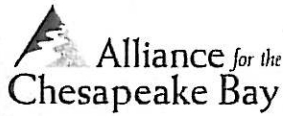
The NPDES permit is generally valid for a period of five years. Applications for renewal of NPDES permits must be submitted at least 180 days prior to the expiration of the current facility permit. Applications for NPDES permits can be obtained from DEP regional offices or obtained electronically

If you are an owner, operator or local official affiliated with a treatment facility, you **MUST** become familiar with your facility NPDES permit. The NPDES permit has reporting and notification requirements including a requirement to file a monthly discharge monitoring report (DMR). Please refer to your permit for requirements specific to your site. The NPDES permit spells out in detail your duties and responsibilities for proper operation of a wastewater treatment system.

**Designing the Next Generation of  
Stormwater Practices**

A Chesapeake Bay Stormwater  
Training Partnership Workshop

Friday May 17, 2013  
Lower Allen Township Building





## Date:

Municipality:

Existing River Conservations Plan?

**Designing the Next Generation of Stormwater Practices**  
**A Chesapeake Bay Stormwater Training Partnership Workshop**  
**May 17, 2013**  
**Cumberland County, PA**

***Objective:*** To provide practitioners and reviewers with information and design guidelines related to innovations in urban stormwater management.

***The Chesapeake Stormwater Partnership:*** A training program for stormwater management professionals created by the Chesapeake Stormwater Network and the Center for Watershed Protection. It is sponsored by the National Fish and Wildlife Foundation's Chesapeake Bay Stewardship Fund. Cumberland County, PA is providing logistical support for the workshop.

**Instructors:** Tom Schueler, Chesapeake Stormwater Network  
Cecilia Lane, Chesapeake Stormwater Network  
Andy Gavin, Susquehanna River Basin Commission  
Donna Morelli, Alliance for the Chesapeake Bay  
Kirk Stoner, Cumberland County  
Lee A. McDonnell, PA DEP  
Greg Hoffmann, Center for Watershed Protection

8:30 – 8:45	Welcome and Introduction	Donna Morelli, ACB Kirk Stoner, CC
8:45 – 9:00	Update on Pennsylvania Stormwater Program and MS4 Permit Overview	PA DEP
9:00 – 10:00	LID Practices	CSN
10:00 – 10:15	BREAK	
10:15 – 10:45	Designing Better Basins	CSN
10:45 – 12:00	Introduction to the Spreadsheet	CWP
12:00 – 1:00	LUNCH	
1:00 – 2:30	Site Design Exercise & Report Out	CWP
2:30 – 3:00	Stormwater Design Considerations for Karst	CSN
3:00 – 4:00	Developing a Chesapeake Bay Pollutant Reduction Plan and Local TMDL Guidance	PA DEP/CSN
4:00 – 4:30	Discussion, Wrap-Up, Evaluation	ACB
4:30	Adjourn	

**BMP #2:** Prior to adoption of any ordinance (municipal permittees) or SOP (non-municipal permittees) required by this permit, provide adequate public notice and opportunities for public review, input, and feedback.

**Measurable Goal:** Advertise any proposed MS4 Stormwater Management Ordinance or SOP, provide opportunities for public comment, evaluate any public input and feedback, and document the comments received and the municipality's response.

If an ordinance or SOP was enacted/developed or amended during the reporting period, provide the following information:

Ordinance No. / SOP Name	Date of Public Notice	Date of Public Hearing	Date Enacted
N/A			

**BMP #3:** Regularly solicit public involvement and participation from the target audience groups. This should include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement your SWMP. Conduct public meetings to discuss the on-going implementation of your SWMP.

**Measurable Goals:** Conduct at least one public meeting per year to solicit public involvement and participation from target audience groups. The public should be given reasonable notice through the usual outlets a reasonable period in advance of each meeting. During the meetings, you should present a summary of your progress, activities, and accomplishments with implementation of your SWMP, and you should provide opportunities for the public to provide feedback and input. Your presentation can be made at specific MS4 meetings or during any other public meeting. Under this MCM, you should document and report instances of cooperation and participation in your activities; presentations you made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in your community. You also should document and report activities in which members of the public assisted or participated in your meetings and in the implementation of your SWMP, including education activities or organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.

1. Date of the public meeting: 3/10/14 Exhibit A
2. How was this meeting advertised to the public? Electronic Message Board, Twp website
3. Indicate where the meeting was held and the number of attendees: Twp Municipal Bldg=30 in attendance
4. Describe the information disseminated at the meeting:

Exhibit B

### MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

**BMP #1:** You shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into your regulated MS4s. Your program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.

**Measurable Goal:** For new permittees, the IDD&E program shall be developed during the first year of coverage under this General Permit and shall be implemented and evaluated each year thereafter. For renewal permittees, the existing IDD&E program shall continue to be implemented and evaluated annually. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.

1. For new permittees only, attach your written IDD&E program to the first report.
2. Date of last review and/or update IDD&E program: 3/31/14
3. Number of outfall inspections conducted during the reporting period: 18 Exhibit B-1
4. Number of dry weather outfall inspections that identified illicit discharges: 0
5. Number of tips or complaints of illicit discharges received from the public during the reporting period: 0

**Lower Allen Township MS4  
Reporting period March 10, 2013-March 31, 2104**

**Exhibit A**

## NOTICE

The following is a list of regularly scheduled meeting of the various Boards and Commissions of Lower Allen Township for 2014, unless otherwise stated and advertised in accordance with pertinent statute. Meetings are held in Gorgas Hall in the Lower Allen Township Municipal Services Center, 2233 Gettysburg Road, Camp Hill, PA 17011.

### LOWER ALLEN TOWNSHIP 2014 MEETING SCHEDULE

#### Board of Commissioners – Reorganization Meeting – 6 pm

January 6, 2014

#### Board of Commissioners - 7 pm (2nd and 4th Monday of each month)

January 27, February 10 & 24, March 10 & 24, April 14 & 28, May 12 & 27\*, June 9 & 23, July 14 & 28, August 11 & 25, September 8 & 22, October 13 & 27, November 10 & 24, December 8 & 22.

#### Development Authority - 6 pm (3rd Monday of the month)

January 20, February 18\*, March 17, April 21, May 19, June 16, July 21, August 18, September 15, October 20, November 17, December 15

#### Planning Commission - 7 pm (3rd Tuesday of the month)

January 21, February 18, March 18, April 15, May 21\*\*, June 17, July 15, August 19, September 16, October 21, November 18, December 16

#### Recreation & Parks Board - 7 pm (4th Wednesday of each month)

January 22, February 26, March 26, April 23, July 23, August 27, September 24, October 22, November 19.  
Park Tours - 6 pm: May 14, May 28, June 11

#### Zoning Hearing Board - 7 pm (3rd Thursday of the month)

January 16, February 20, March 20, April 17, May 15, June 19, July 17, August 21, September 18, October 16, November 20, December 18.

\* Tuesday due to holiday,

\*\* Wednesday due to Primary Election

LOWER ALLEN TOWNSHIP  
BOARD OF COMMISSIONERS  
Thomas G. Vernau, Township Manager

• 2233 •

LOWER ALLEN  
• TOWNSHIP •  
MUNICIPAL SERVICES CENTER

STORMWATER  
PRESENTATION AT  
BOC MEETING  
MARCH 10 AT 7PM

**Lower Allen Township MS4**  
**Reporting period March 10, 2013-March 31, 2104**

**Exhibit B**



## MINUTES

BOARD OF COMMISSIONERS

LOWER ALLEN TOWNSHIP

REGULAR MEETING

MARCH 10, 2014

The following were in ATTENDANCE:

### BOARD OF COMMISSIONERS

H. Edward Black, President  
Peddrick M. Young, Sr, Vice President  
John T. Titzel  
Richard F. Schin

### TOWNSHIP PERSONNEL

Thomas G. Vernau Jr., Township Manager  
Erin Trone, Assistant Township Manager  
Frank Williamson, Chief of Police  
Richard Grove, Finance Director  
Daniel Flint, Community Development  
Steven P. Miner, Solicitor  
Julie Echterling, Recording Secretary

President Black called the March 10, 2014 Regular Meeting of the Board of Commissioners to order at 7:00 pm followed by a prayer and the Pledge of Allegiance. He announced Proof of Publication was available for review. Commissioner Bucher was absent with excuse.

### APPROVAL OF FEBRUARY 24, 2014 REGULAR MEETING MINUTES

Commissioner **SCHIN** moved to approve the minutes for the February 24, 2014 regular meeting. Commissioner **TITZEL** seconded the motion. Motion carried 4-0.

### AUDIENCE PARTICIPATION: ANY ITEM ON THE AGENDA

President Black inquired if anyone in the audience wished to address any item appearing on the agenda. Mr. Tom Williams asked to speak on item 7e, 10b and 10c.

### PRESENTATION: Annual Stormwater Management Program Presentation related to the Township's Municipal Separate Storm Sewer System (MS4) Permit

Mr. Flint discussed the background of the Township obtaining the MS4 permit. He described, in detail, the six minimum control measures which included: Public Education and Outreach, Public Involvement/Participation, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management in New and Re-Development Activities, and Pollution Prevention/Good Housekeeping for Municipal Operations. Mr. Flint asked if there were any public questions or comments on the plan. The Board asked about the responsibility for water runoff into the Township. Mr. Flint stated that the Township is downstream and if there is any runoff detected, action is required. Discussion ensued.

### PRESENTATION: Cedar Spring Run Park by Simone Collins

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**Lower Allen Township MS4  
Reporting period March 10, 2013-March 31, 2014**

**Exhibit B-1**

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # 32 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Beacon Hill Blvd  
Weather: air temp.: 42 °C rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Cape End Section  
damage: ☒ none concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 30 and 31 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Beacon Hill Blvd  
Weather: air temp.: 42 °C rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Pipe Ends  
damage: ☒ none concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # 28.29 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Beacon Hill Blvd  
Weather: air temp.: 42 °C rain: Y ☒ N ☐ sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N ☐  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe Ends  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 3 A1.5, A1.6, A1.7 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Beacon Hill Blvd @ Poplar Ave.  
Weather: air temp.: 42 °C rain: Y ☒ N ☐ sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N ☐  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe Ends  
damage: ☒ none concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # A 168 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Bearon #11 Blvd @ Cap View Dr.  
Weather: air temp.: 42 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: N/A L/sec  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: covered with brush plants  
Damage to outfall structures:  
identify structure: Pipe End  
damage: none concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # A 169 - A 110 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Bearon Hill  
Weather: air temp.: 47 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: 20 L/sec GPM  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe Ends - RIGHT Side Separated  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # A1-11 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Beacon Hill Blvd up from Creek Bridge  
Weather: air temp.: 47 °C rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe End CMP  
damage: ☒ none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 27 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Down slope from Summitview Ct  
Weather: air temp.: 47 °C rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: CHAFE  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # AL 12 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: BH Blvd  
Weather: air temp.: 47 °C rain: Y ☒ N ☐ sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N ☐  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none ☒ sediment oily describe: 60% full (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: Covered with brush  
Damage to outfall structures: \_\_\_\_\_  
identify structure: Pipe End  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # H 32 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Creek Vista - Bottom of stairs  
Weather: air temp.: 47 °C rain: Y ☒ N ☐ sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N ☐  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures: \_\_\_\_\_  
identify structure: Concrete Headwall w/ trash screen  
damage: ☒ none concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_



LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # #16 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Creekwood Park Center  
Weather: air temp.: 47 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Concrete End Wall  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # #15 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Creekwood Park East  
Weather: air temp.: 47 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Concrete End Wall  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # 13 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Creekwood Dr. @ Winding Way (Rear 200 Creekwood)  
Weather: air temp.: 47 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: X L/sec  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Pipe End  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 12 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Creekwood Rd West  
Weather: air temp.: 41 °C rain: Y N sunny cloudy  
Outfall flow rate estimate: X L/sec  
Known industrial or commercial uses in drainage area? Y N  
Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: none yellow brown green gray other: \_\_\_\_\_  
Turbidity: none cloudy opaque  
Floatables: none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: normal excessive growth inhibited growth  
extent: \_\_\_\_\_

Damage to outfall structures:  
identify structure: Pipe End  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # 15 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Briarwood Ct  
Weather: air temp.: 47 °C rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 0 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe End  
damage: ☒ none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 17 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Attendale Way @ Chimney Ln (Rear 348 Blacksmith)  
Weather: air temp.: 47 °C rain: Y N sunny ☒ cloudy  
Outfall flow rate estimate: 0 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe End Silt noted  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

**LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT**  
**Illicit Discharge Detection and Elimination Field Screening Form**

Outfall # 16 Photograph # \_\_\_\_\_ Date: 1/31/14  
 Location: Blackatch Lane (Rear of 300)  
 Weather: air temp.: 47°C rain: Y ☒ N sunny ☒ cloudy  
 Outfall flow rate estimate: 2 L/sec  
 Known industrial or commercial uses in drainage area? Y ☒ N  
 Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
 Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
 Turbidity: ☒ none cloudy opaque  
 Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
 Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
 Vegetation conditions: ☒ normal excessive growth inhibited growth  
 extent: \_\_\_\_\_

Damage to outfall structures:  
 identify structure: Pipe End  
 damage: ☒ none concrete cracking / concrete spalling / peeling paint / corrosion  
 other damage: \_\_\_\_\_  
 extent: \_\_\_\_\_

Outfall # X H26, H32, H25, H28 Photograph # \_\_\_\_\_ Date: 1/31/14  
 Location: Cedar Cliff Se. HPA Outfall  
 Weather: air temp.: 47°C rain: Y ☒ N sunny ☒ cloudy  
 Outfall flow rate estimate: 2 L/sec  
 Known industrial or commercial uses in drainage area? Y ☒ N  
 Describe: \_\_\_\_\_

**PHYSICAL OBSERVATIONS**

Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
 Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
 Turbidity: ☒ none cloudy opaque  
 Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
 Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
 Vegetation conditions: ☒ normal excessive growth inhibited growth  
 extent: \_\_\_\_\_

Damage to outfall structures:  
 identify structure: Conc. Headwall  
 damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
 other damage: \_\_\_\_\_  
 extent: \_\_\_\_\_

6. Describe investigatory and corrective action work conducted for illicit discharges during the reporting period (if applicable). Attach additional pages as necessary. Complaints coordinator initiates request for service which is followed up by Township staff to investigate. Notices with required corrective measures are sent to appropriate party. See attached

**BMP #2: Develop and maintain a map of your regulated small MS4. The map must also show the location of all outfalls and the locations and names of all surface waters of the Commonwealth (e.g., creek, stream, pond, lake, basin, swale, channel) that receive discharges from those outfalls.**

**Measurable Goals:** For new permittees, develop the map(s) of your regulated small municipal separate storm sewer systems and the information on all outfalls from your regulated small MS4 by the end of the fourth (4th) year of permit coverage. For renewal permittees, the existing map(s) of your regulated small MS4 shall be updated and maintained as necessary during each year of coverage under the permit.

1. Have you completed a map(s) of all outfalls and receiving waters of your storm sewer system? ☒ Yes ☐ No
2. For new permittees only, attach the completed map to the 4<sup>th</sup> year Annual Report.
3. Date of last update or revision to map(s): 3/4/14 Scale of map: 1:11,083
4. Total number of discharge points in your storm sewer system that:  
Discharge directly to surface waters (outfalls): 144  
Discharge to storm sewers owned by others: 0  
Total number of outfalls that are mapped at this time: 140

**BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), new permittees shall show, and renewal permittees shall update, the entire storm sewer collection system, including roads, inlets, piping, swales, catch basins, channels, basins, and any other features of the permittee's storm sewer system including municipal boundaries and/or watershed boundaries.**

**Measurable Goals:** For new permittees, develop the map(s) by the end of the fourth (4th) year of coverage under the permit and update and maintain the map(s) as necessary each year of permit coverage thereafter. For renewal permittees, update and maintain the map(s) as necessary during each year of permit coverage.

1. Have you completed a map(s) that includes roads, inlets, piping, swales, catch basins, channels, basins, municipal boundaries and watershed boundaries? ☒ Yes ☐ No
2. Is it on the same map as for outfalls and receiving waters? ☒ Yes ☐ No
3. For new permittees only, attach the completed map to the 4<sup>th</sup> year Annual Report.
4. Date of last update or revision to map(s): 3/4/14 Scale of map: 1"=750'

**BMP #4: Following the IDD&E program created pursuant to BMP #1, the permittee shall conduct outfall field screening, identify the source of any illicit discharges, and remove or correct any illicit discharges using procedures developed under BMP #1.**

**Measurable Goals:** For new permittees, all of the identified regulated small MS4 outfalls shall be screened during Dry Weather on at least two different occasions during the permit coverage term. In each permit coverage year, at least forty percent of the total number of outfalls should be screened.

For renewal permittees, each of the identified regulated small MS4 outfalls shall be screened at least once during each permit coverage term. For areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls shall be screened annually.

For each outfall, if the screening reveals dry weather flow, the discharge from the outfall and the area around the outfall shall be inspected visually for color, turbidity, sheen, floating or submerged solids; for adverse affects on plants or animals in proximity to the outfall; and for odor. If the outfall produces any odor, or if the visual inspection shows any indication that the discharge may contain pollutants, then samples of the discharge shall be collected for field and / or lab testing of selected chemical and biological parameters as part of a process to determine if the dry weather flow is illicit. Common parameters include pH, conductivity, E. Coli bacteria, fecal coliform bacteria, metals, suspended solids, dissolved solids, oils, ammonia, surfactants; chlorine; and fluoride.

**Lower Allen Township**  
**2233 Gettysburg Road**  
**Camp Hill, Pa. 17011**  
**Complaints Report**

From: 03/09/2013

To: 03/31/2014

Comp #	Date	Type	Tax Id	Legal Address	Inspector	Status
13-0189	4/15/2013	Stormwater Mgmt.	13-23-0553-011	3580 GETTYSBURG ROAD		
Desc:						Closed
roadway flooding allegedly from Trinity drainage issues..has been since the roadwork was done along that stretch of Gettysburg Road						
13-0507	6/7/2013	Stormwater Mgmt.	13-25-0008-421	1642 LOWELL LANE		
Desc:						Closed
Silt fence not properly installed at construction site						
13-0358	7/12/2013	Stormwater Mgmt.	13-25-0008-572	1312 BREWSTER COURT	RJA108	
Desc:						Closed
Pool company washing equipment down stormdrain after pouring concrete						
13-0144	8/28/2013	Stormwater Mgmt.	13-23-0551-092	2419 NEW YORK AVENUE& L		
Desc:						Closed
Neighbor complaining about SW entering their property near their pool and deck.						
14-50325	3/31/2014	Stormwater Mgmt.	13-25-0008-536	1259 YARMOUTH LANE		
Desc:						Closed
concerned about water run-off from construction site next to them						



**Lower Allen Township**  
2233 Gettysburg Road  
Camp Hill, Pa. 17011  
**Complaints Report**

From: 03/09/2013

To: 03/31/2014

**Totals by Complaint Type & Status**

<b>ComplaintType</b>	<b>Complaint Status</b>	<b>Count</b>
Stormwater Mgmt.		5
		<b>Total: 5</b>
	Closed	5



March 11, 2013

West Shore School District  
Attention: Russell Brunell, Supervisor of Buildings and Grounds  
P.O. Box 803  
New Cumberland, Pa. 17070-0803

RE: Cedar Cliff High School  
Discharge to Storm Drainage System

Dear Mr. Brunell:

On February 8, 2013, a condition was observed where steam was discharging from a storm drainage inlet in West Shore Drive, adjacent to Cedar Cliff High School. Investigation of this condition indicated that the source was a discharge from a boiler room in the high school to a floor drain and ultimately to the Municipal Separate Storm Sewer System (MS4).

The Township's Stormwater Management Ordinance prohibits discharge of non-stormwater to the MS4. The School District is requested to make the appropriate modifications to the building's internal plumbing such that interior building drains are no longer connected to the storm drainage system.

Township staff is available to consult on the procedures necessary implement this change. Please contact David Yount in our office with questions. He can be reached at [dyount@latwp.org](mailto:dyount@latwp.org) or 975-7575 ext. 1103.

Thank you in advance for your attention to this matter.

Sincerely,

Daniel J. Flint, P.E. NSPE  
Community Development Director/Township Engineer

cc: Thomas G. Vernau, Jr., Township Manager  
David Yount, Construction Code Official

Permit No. PAG-02-0021-11-013  
Report No. 13-01

# EARTH DISTURBANCE INSPECTION REPORT

Project Name Meridian Inspection Date 4/3/2013 Inspection Time 0900  
Weather Conditions 30's sunny Total Project Area 35.3  
Location Lisburn Rd & PA Turnpike Total Disturbed Area 25  
Municipality Lower Allen County Cumberland  
Receiving Water(s) Cedar Run Designated/Existing Use CWF

Responsible Party(s) Gregory Hodecker

(name & address) CH&N Construction

1190 Dillerville Rd

Phone ( ) Lancaster, PA 17601

Site Representative (name) Jerry Graeter  
(title) Site Superintendent

Inspector (name) Vince McCollum  
(title) District Technician

Type of Inspection (check only one)

Photographs Taken Yes ☒ No ☐

Routine complete ☐ Routine partial ☒ Follow-up ☐ Complaint ☐ Final ☐

**Site Description & Observations** Walked the site with site rep. Sediment forebay leading into sediment basin 1 is working well. Some inlets in topsoiled areas of the site do not have inlet protection on them. Some of the inlets in the paved area, have the inlet bags removed, however, they installed fabric over the inlet of the stormwater beds to protect them. Most of the paved areas of the site have been swept. Construction traffic from disturbed areas is being very limited onto the paving. Site rep agreed to send me an email when inlet protection is installed in the topsoiled areas.

☒ Continued on page 3 of 4.

Permit and Plan Requirements		Type of Activity (check as many as appropriate)	
Y	N		<input type="checkbox"/> Other _____
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Written Erosion & Sediment Plan required	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Written Post Construction Stormwater Management Plan required	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Erosion & Sediment Plan requested	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Post Construction Stormwater Management Plan requested	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	E & S Permit required	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NPDES Permit required	
	<input type="checkbox"/>	Phased Constr.	
	<input checked="" type="checkbox"/>	Non-Phased Constr.	
Permit #: <u>PAG-02-0021-11-013</u>		Exp. Date: <u>9/26/2013</u>	
		<input type="checkbox"/> Pub. Road Constr./Maint. (PRC)	<input type="checkbox"/> Pvt. Road/Residence (PRRS)
		<input checked="" type="checkbox"/> Res. Subdivision (RSBD)	<input type="checkbox"/> Comm./Indust. Dev. (CMIN)
		<input type="checkbox"/> Govmt. Facilities (GOV)	<input type="checkbox"/> Recreation Facilities (RECF)
		<input type="checkbox"/> Utilities Facilities (UTL)	<input type="checkbox"/> Agricul. Activities (AGA)
		<input type="checkbox"/> Sewer/Water Systems (SWS)	<input type="checkbox"/> Pipeline (PL)
		<input type="checkbox"/> Remediation/Restoration (RRES)	<input type="checkbox"/> Silviculture (SILV)



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. PAG-02-0021-11-013  
Report No. 13-01

## EARTH DISTURBANCE INSPECTION REPORT

Project Name Meridian Inspection Date 4/3/2013 Inspection Time 0900

### Inspection Findings

### Reference

- |   |   |
|---|---|
| 1. No violations observed at this time.   | <input type="checkbox"/> (N/A)                |
| 2. Failure to (check all that apply).   |   |
| a. develop a written Erosion and Sediment (E&S) Plan.   | <input type="checkbox"/> (102.4)              |
| b. have E&S Plan available onsite.  | <input type="checkbox"/> (102.4)              |
| c. submit an E&S Plan as requested.   | <input type="checkbox"/> (102.4)              |
| d. implement effective E&S Best Management Practices (BMPs).  | <input checked="" type="checkbox"/> (102.4)   |
| e. maintain effective E&S BMPs.   | <input checked="" type="checkbox"/> (102.4)   |
| f. use Antidegradation Best Available Combination of Technologies (ABACT) BMPs for discharges to High Quality or Exceptional Value Waters.  | <input type="checkbox"/> (102.4)              |
| g. obtain an NPDES Permit for Stormwater Discharges Associated with Construction Activities.  | <input type="checkbox"/> (102.5)              |
| h. obtain an E&S Permit.  | <input type="checkbox"/> (102.5)              |
| i. prepare and implement a PPC Plan.  | <input type="checkbox"/> (102.5)              |
| j. submit Notice of Termination.  | <input type="checkbox"/> (102.7)              |
| k. develop written Post Construction Stormwater Management (PCSM) Plan.   | <input type="checkbox"/> (102.8)              |
| l. have PCSM Plan available onsite.   | <input type="checkbox"/> (102.8)              |
| m. submit PCSM Plan as requested.   | <input type="checkbox"/> (102.8)              |
| n. implement effective PCSM BMPs.   | <input type="checkbox"/> (102.8)              |
| o. maintain effective PCSM BMPs.  | <input type="checkbox"/> (102.8)              |
| p. perform reporting and recordkeeping as required.   | <input type="checkbox"/> (102.8)              |
| q. implement riparian buffer or riparian forest buffer.   | <input type="checkbox"/> (102.14)             |
| r. meet regulatory requirements for riparian forest buffer.   | <input type="checkbox"/> (102.14)             |
| s. provide temporary stabilization of the earth disturbance site.   | <input type="checkbox"/> (102.22)             |
| t. provide permanent stabilization of the earth disturbance site.   | <input type="checkbox"/> (102.22)             |
| u. comply with permit conditions.   | <input type="checkbox"/> (402 CSL)            |
| 3. Sediment or other pollutant was discharged into waters of the Commonwealth.  | <input type="checkbox"/> (401 CSL)            |
| 4. Site conditions present a potential for pollution to waters of the Commonwealth.   | <input checked="" type="checkbox"/> (402 CSL) |
| 5. Other (describe). _____  | <input type="checkbox"/> _____                |
| 6. Other (describe). _____  | <input type="checkbox"/> _____                |
| 7. Other (describe). _____  | <input type="checkbox"/> _____                |
| 8. Other (describe). _____  | <input type="checkbox"/> _____                |
| 9. Other (describe). _____  | <input type="checkbox"/> _____                |
| <input checked="" type="checkbox"/> Inspection of this project has revealed site conditions which constitute violations of 25 Pa. Code Chapters 92a and/or 102 and the Clean Streams Law, the act of June 22, 1937, P.L. 1987, 35 P.S. §691.1 et seq. |   |

*Additional information regarding these violations can be found on the back of this page.*



## EARTH DISTURBANCE INSPECTION REPORT

Project Name Meridian Inspection Date 4/3/2013 Inspection Time 0900

Continuation Sheet

Site Description & Observations

Compliance Assistance Measures Site representative agreed to install the inlet protection where it was missing, when we walked the site.

Follow-up Inspection will occur on or about (date) 5/6/13

(Signature of Site Representative)

(Date)

Vincent McGowan  
(Inspector's Signature)

4/4/2013

(Date)

The Site Representatives' signature acknowledges that they have read the report and received a copy and that they were given an opportunity to discuss it with the inspector. The signature does not necessarily mean the signee agrees with the report.

Page 3 of 4

☐ White - Inspector

☐ Yellow - Responsible Party

☐ Pink - Department

☐ Goldenrod - Other

This report is official notification that a representative of the Department of Environmental Protection has conducted an inspection of your earth disturbance activity to determine compliance with Title 25, Chapter 92a, National Pollutant Discharge Elimination System, Title 25, Chapter 102, Erosion and Sediment Control, and the Pennsylvania Clean Streams Law. This representative may be an employee of the local County Conservation District, which by delegation agreement with the Department of Environmental Protection, is authorized to investigate complaints, inspect earth disturbance activities and conduct compliance actions. Any violations observed by the Department/Conservation District have been noted on this report form and constitute unlawful conduct as defined in Section 611 of the Clean Streams Law.

There will be no written confirmation of those violations from the Department. Failure to take corrective actions to resolve the violations may result in administrative, civil and/or criminal penalties being instituted by the Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.

This report does not constitute an Order or appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

For further information or assistance please contact:



LOWER ALLEN TOWNSHIP  
2233 GETTYSBURG ROAD  
CAMP HILL, PA. 17011  
(717) 975-7575 FAX (717) 975-2287

NOTICE OF VIOLATION OF THE CODE OF LOWER ALLEN TOWNSHIP  
CHAPTER 184 KNOWN AS "STORMWATER MANAGEMENT ORDINANCE"  
AND CEASE AND DESIST ORDER  
NO. 2013-07

**Konstantin Galoyan**

(Name of Record Owner)

**3713 Lisburn Road**

**Mechanicsburg, PA 17055**

(Address of Record Owner)

(Name of Occupant or other Person  
Against whom action may be taken)

(Address of occupant or other Person  
Against whom action may be taken)

Re: **3713 Lisburn Road**

(Location of Property upon which violation exists)

**13-29-2445-020**

(Tax Map/Parcel)

You are hereby notified that you are violating the Lower Allen Township Code of Ordinances, known as the "Code", Chapter No. 184 as amended. The Section or Sections of the Ordinance which you have violated and an explanation of the violations are listed below. You must comply with this Notice of Violation promptly and must commence action to correct or remove the following-listed violations in the time frames provided. In no case shall you abandon the premises in such condition as to create a hazard or menace to the public safety, health, morals or welfare.

**Storm Water Management Regulations Violations:**

You have removed the required Ponding Recharge Areas from the property without permit. You have disturbed more than 5,000 square feet of your property without a permit from Cumberland County Conservation District or Lower Allen Township.

Section 184-39, Alterations of Storm Water Management BMPs:

No person shall modify, remove, fill, landscape or alter any SWM BMPs, facilities, areas, structures or easements without the written approval of the municipality.

You have imported soil and disturbed the earth without permit and without providing required erosion and sediment (E and S) control measures.

Section 184-19, Erosion and Sediment control requirements:

A. Whenever the vegetation and topography are to be disturbed, such activity must be in conformance with Chapter 102, Title 25, Rules and Regulations, Part I, Commonwealth of Pennsylvania, Department of Environmental Protection, Subpart C, protection of Natural Resources, Article II, Water Resources, Chapter 102, "Erosion Control," and in accordance with the Cumberland County Conservation District (CCCD) and the standards and specifications of the municipality.

B. No regulated activities shall commence until an erosion and sediment control plan consistent with this chapter is approved by the municipality.

NOTICE OF VIOLATION OF THE CODE OF LOWER ALLEN TOWNSHIP  
CHAPTER 184 KNOWN AS "STORMWATER MANAGEMENT ORDINANCE"  
AND CEASE AND DESIST ORDER  
NO. 2013-07

C. Evidence of any permits required by DEP or CCCD must be provided to the municipality.

**NOTICE: You must remove the imported materials and rebuild the Ponding Recharge Areas within 5 days of posting the property. You must provide E and S control measures (silt fencing etc.) immediately around all disturbed areas to prevent damage to water ways and adjacent property. An Excavation and Fill permit and a revised Storm Water Management Plan with calculation and proof of a submitted permit application to CCCD must be provided to Lower Allen Township no later than April 17, 2013.**

Please be advised that Section 184-46 states that anyone violating the provisions of this chapter shall be guilty of a summary offense and, upon conviction, shall be subject to a fine of not more than \$500 for each violation, plus court costs and attorney fees. Each day that the violation continues shall be a separate offense. Section 184-47 states that any person aggrieved by any action of the municipality or its designee, relevant to the provisions of this chapter, may appeal to the municipality within 30 days of that action. Any person aggrieved by any decision of the municipality, relevant to the above appeal of this chapter, may appeal to the Cumberland County Court of Common Pleas within 30 days of the municipality's decision.

This listing of violations may not represent all violations presently occurring on this property. Other violations may appear upon application for required permits or upon further investigation, and the Township reserves it's right to take any and all action authorized to enforce it's "Code" as to all violations.

This list represents only violations of the "Code", Chapter No. 184. Violations of other Sections have occurred, and the Township reserves it's rights to enforce these and any other "Code" Sections.

Date: 4/10/2013

Raymond J. Allen  
Engineering Technician

LOWER ALLEN TOWNSHIP  
2233 GETTYSBURG ROAD  
CAMP HILL, PA. 17011  
(717) 975-7575 FAX (717) 975-2287

NOTICE OF VIOLATION OF THE CODE OF LOWER ALLEN TOWNSHIP  
CHAPTER 184 KNOWN AS "STORMWATER MANAGEMENT"  
AND CEASE AND DESIST ORDER  
NO 2013-15

Koskap Partners

(Name of Record Owner)

P. O. Box 67

Camp Hill, PA 17001-1229

(Address of Record Owner)

Jami Braafhart

(Name of Occupant or other Person

Against whom action may be taken)

500 Roundtop Rd

Lewisberry, PA 17339

(Address of occupant or other Person

Against whom action may be taken)

Re: 2500 Gettysburg Road

(Location of Property upon which violation exists)

13-23-0549-003A

(Tax Map/Parcel)

You are hereby notified that you are violating the Lower Allen Township Code of Ordinances, known as the "Code", Chapter No. 184, as amended. The Section or Sections of the Ordinance which you have violated and an explanation of the violations are listed on the second page of this Notice. You must comply with this Notice of Violation promptly and must correct or commence to correct the following-listed violations no later than **15 days from receipt of notice**. In no case shall you abandon the premises in such condition as to create a hazard or menace to the public safety, health, morals or welfare.

Please be advised that you have the right to appeal this Notice of Violation and Cease and Desist Order in writing to the Board of Appeals of Lower Allen Township within thirty (30) days if you believe that I have misinterpreted or misapplied Chapter No. 184 of the "Code".

Failure to commence action to correct the violation within the time specified above, unless an appeal of this Notice of Violation has been filed with the Township Commissioners, constitutes a violation of the "Code" of Lower Allen Township Chapter No. 184. Violation of Chapter No. 184 may result in the institution of civil enforcement proceedings before a District Justice where the District Justice may impose a fine of not more than Five (\$500.00) Hundred Dollars, plus all costs of prosecution, including the Townships' attorney's fees, incurred as a result of such action. Each day that a violation continues shall constitute a separate offense and may subject you to a daily fine. The Township may also institute other appropriate action at law or in equity which may be necessary to enforce the provisions of Chapter No. 184.

Date : September 4, 2013

\_\_\_\_\_  
Engineering Technician

Section 184- 11 A(1)(2) - Description of violation and requirements which have not been met:

**Earth disturbance without SWM site plan**

For all regulated activities, unless preparatin of a SWM site plan is specifically exempted (1)preparation and implementaion of an approved site plan is required. (2)No regulated activities shall commence until the municipality issues written approval of a SWM site plan, which demonstrates compliance with the requirements of this chapter.

Section 184-11 (D) Description of violation and requirements which have not been met:

**Construction of new or additional impervious surface**

For all regulated earth disturbance activities, erosion and sediment control BMPs shall be designed, implemented, operated and maintained during the regulated earth disturbance activities (e.g., during construction) to meet the purposes and requirements of this chapter and to meet all requirements under the Pennsylvania Code Title 25 and the Clean Streams Law. Various BMPs and their design standards are listed in the Erosion and Sediment Pollution Control Program Manual (E&S Manual), Commonwealth of Pennsylvania, Department of Environmental Protection, No. 363-2134-008 (2000), as amended and updated.

Whenever the vegetation and topography are to be disturbed, such activity must be in conformance with Chapter 102, Title 25, Rules and Regulations, Part I, Commonwealth of Pennsylvania, Department of Environmental Protection, Subpart C, Protection of Natural Resources, Article II, Water Resources, Chapter 102, "Erosion Control," and in accordance with the Cumberland County Conservation District and the standards and specifications of the municipality.

This listing of violations may not represent all violations presently occurring on this property. Other violations may appear upon application for required permits or upon further investigation, and the Township has the right to take any and all action authorized to enforce it's "Code" as to all violations.

This list represents only violations of the "Code", Chapter No. 184 . Violations of other Sections may have occurred and the Township reserves it's rights to enforce these and any other "Code" Sections.

Permits are required for Demolition, Construction, Reconstruction, Alterations and Major Repairs to all structures of all types.

Date:September 4, 2013

Raymond Allen  
Engineering Technician

Section 184- 11 A(1)(2) - Description of violation and requirements which have not been met:

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Permits are required for Demolition, Construction, Reconstruction, Alterations and Major Repairs to all structures of all types.

Date:September 4, 2013

Raymond Allen  
Engineering Technician



*You shall implement the IDD&E plan that you developed to address any non-storm water discharges. If an outfall does not have any dry weather flow, then sampling and testing are not needed.*

*For all permittees, outfall inspections need to be prioritized according to the perceived chance of illicit discharges within the outfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless of the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheet (attached below) excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained to justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the illicit flow also shall be documented.*

*The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports.*

1. For new permittees only, were at least 40% of all outfalls screened during dry weather? ☐ Yes ☐ No
2. If Yes for #1, indicate actual percent screened. If No for #1, indicate reason(s) why this was not completed:
3. For renewal permittees, indicate the percent of outfalls screened during the reporting period: 12.5 %
4. For all permittees, indicate the percent of outfalls screened that revealed dry weather flows: 0 %
5. Did any dry weather flows that reveal color, turbidity, sheen, floating or submerged solids or odors?  
☐ Yes ☒ No
6. If Yes for #5, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.
7. Do you use the "Outfall Reconnaissance Inventory / Sample Collection Field Sheet" provided in the permit? If no, attach a copy of your monitoring form. ☐ Yes ☒ No

**BMP #5: Enact a stormwater management ordinance (municipal entities) or develop an SOP (non-municipal entities) to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.**

**Measurable Goal:** *Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance from an Act 167 Plan approved by the Department in 2005 or later, the MS4 Stormwater Management Ordinance; or an ordinance that satisfies all applicable requirements in a completed and signed MS4 Stormwater Management Ordinance Checklist. (For non-municipal permittees, new permittees shall develop and implement a Standard Operating Procedure (SOP) within the first year of coverage).*

*Renewal permittees must continue to maintain, update, implement, and enforce a Stormwater Management Ordinance that satisfies all applicable requirements. (For non-municipal permittees, the SOP satisfies this requirement. If no existing SOP exists, it should be developed during the first year of coverage).*

**Measurable Goal:** *New permittees shall submit a letter signed by a municipal official, municipal engineer, or the municipal solicitor as an attachment to their first year report certifying the enactment of an ordinance that meets all applicable requirements of this permit. Renewal permittees shall update their existing ordinance, if necessary, and submit documentation of completion to the Department. (For non-municipal permittees, submit the SOP to the first report).*

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? ☒ Yes ☐ No If Yes, indicate the date of the ordinance or SOP: 2/14/11
2. For new permittees only, attach an ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non-stormwater discharges to the first report submitted to DEP.



LOWER ALLEN TOWNSHIP - COMMUNITY DEVELOPMENT DEPARTMENT  
Illicit Discharge Detection and Elimination Field Screening Form

Outfall # 16 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Blackatch Lane (Rear of 300) 2/24/14  
Weather: air temp.: 47°C 38° rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Pipe End  
damage: ☒ none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

Outfall # 4 H26, H32, H35, H27 Photograph # \_\_\_\_\_ Date: 1/31/14  
Location: Cedar Cliff Se. HPA Outfall 2/24/14  
Weather: air temp.: 47°C 38° rain: Y ☒ N sunny ☒ cloudy  
Outfall flow rate estimate: 2 L/sec  
Known industrial or commercial uses in drainage area? Y ☒ N  
Describe: \_\_\_\_\_  
**PHYSICAL OBSERVATIONS**  
Odor: ☒ none sewage sulfide oil gas rancid-sour other: \_\_\_\_\_  
Color: ☒ none yellow brown green gray other: \_\_\_\_\_  
Turbidity: ☒ none cloudy opaque  
Floatables: ☒ none petroleum sheen sewage other: \_\_\_\_\_ (collect sample)  
Deposits/stains: ☒ none sediment oily describe: \_\_\_\_\_ (collect sample)  
Vegetation conditions: ☒ normal excessive growth inhibited growth  
extent: \_\_\_\_\_  
Damage to outfall structures:  
identify structure: Conc. Headwall  
damage: none / concrete cracking / concrete spalling / peeling paint / corrosion  
other damage: \_\_\_\_\_  
extent: \_\_\_\_\_

**LOWER ALLEN TOWNSHIP**

**ACT 167 STORMWATER MANAGEMENT ORDINANCE**

**ORDINANCE NO. 2011-01**

**LOWER ALLEN TOWNSHIP  
CUMBERLAND COUNTY, PENNSYLVANIA**

**This Ordinance amends the Code of the Township of Lower Allen by deleting existing Chapter 184, Stormwater Management, and replacing it with this new Chapter 184.**

**Adopted by the Lower Allen Township Board of Commissioners  
at a Public Meeting Held on February 14, 2011**

*Township of Lower Allen, PA  
Wednesday, November 20, 2013*

## Chapter 184. STORMWATER MANAGEMENT

### Article VII. Prohibited Acts

#### § 184-37. Prohibited discharges and connections.

- A. Any drain or conveyance, whether on the surface or subsurface, which allows any nonstormwater discharge, including, but not limited to, sewage, process wastewater, wash water, ammonia, chlorine, petroleum products (gasoline, fuel oil, etc.) pesticides, pollutants and other hazardous materials to enter the municipality's separate storm sewer system or to enter the waters of the commonwealth is prohibited. Handling and disposal of all materials and wastes shall comply with all federal and state requirements. Structural and nonstructural BMPs, in accordance with Chapters 5 and 6 of the most current version of the SWM Manual, shall be implemented where necessary to preserve the quality of stormwater runoff.
- B. Discharges to the municipality's separate storm sewer system or to waters of the commonwealth which are not composed entirely of stormwater shall be prohibited, except as provided in Subsection C below, and discharges allowed under a state or federal permit.
- C. The following discharges are authorized unless they are determined to be significant contributors to pollution to the waters of this commonwealth:
  - (1) Discharges from fire-fighting activities, including training.
  - (2) Potable water sources, including dechlorinated waterline and fire hydrant flushing.
  - (3) Irrigation drainage.
  - (4) Air-conditioning condensate.
  - (5) Springs.
  - (6) Water from crawl space or basement sump pumps.
  - (7) Flows from riparian habitats and wetlands.
  - (8) Uncontaminated water from foundations or from footing drains.
  - (9) Lawn watering.
  - (10) Dechlorinated swimming pool discharges.
  - (11) Uncontaminated groundwater.
  - (12) Water from individual residential car washing.
  - (13) Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used.
  - (14) Routine external building wash down (which does not use detergents or other compounds).
- D. In the event that the municipality or DEP determines that any of the discharges identified in Subsection C significantly contribute to pollution of the waters of this commonwealth, the municipality or DEP will notify the responsible person(s) to cease the discharge.
- E. Nothing in this section shall affect a discharger's responsibilities under state or federal law.

*Township of Lower Allen, PA  
Friday, June 1, 2012*

**§ 184-45. Notice of violation.**

- A. Whenever the municipality finds that a person has violated a prohibition or failed to meet a requirement of this chapter, the municipality may order compliance by written notice to the responsible person. Such notice may require, without limitation:
- (1) The performance of monitoring, analyses and reporting;
  - (2) The elimination of prohibited connections or discharges;
  - (3) Cessation of any violating discharges, practices or operations;
  - (4) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
  - (5) The implementation of stormwater BMPs; and
  - (6) Operation and maintenance of stormwater BMPs.
- B. Such notification shall set forth the nature of the violation(s) and establish a time limit for correction of these violation(s). Said notice may further advise that, if applicable, should the violator fail to take the required action within the established deadline, the work will be done by the municipality or designee and the expense thereof shall be charged to the violator. Said notice shall state the penalty for failure to comply.
- C. Failure to comply within the time specified shall also subject such person to the penalty provisions of this chapter. All such penalties shall be deemed cumulative and shall not prevent the municipality from pursuing any and all other remedies available in law or equity.

*Township of Lower Allen, PA  
Wednesday, November 20, 2013*

## Chapter 184. STORMWATER MANAGEMENT

### Article VIII. Enforcement and Penalties

#### § 184-46. Violations and penalties; enforcement remedies.

- A. Any one violating the provisions of this chapter shall be guilty of a summary offense and, upon conviction, shall be subject to a fine of not more than \$500 for each violation, plus court costs and attorney fees. Each day that the violation continues shall be a separate offense.
- B. In addition, the municipality, through its solicitor, may institute injunctive, mandamus or any other appropriate action or proceeding at law or in equity for the enforcement of this chapter. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.

**BMP 6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.**

**Measurable Goals:** During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences using methods outlined under MCM #1. If not already established, set up and promote a stormwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of permit coverage for the public to use to notify you of illicit discharges, illegal dumping or outfall pollution. Respond to all complaints in a timely and appropriate manner. Document all responses, include the action taken, the time required to take the action, whether the complaint was resolved successfully.

1. Was information distributed to the public employees, businesses, and general public during the reporting period?

☒ Yes ☐ No

2. Explain in detail the stormwater pollution reporting mechanism in place:

Calls referred to Township Compliants Co-ordinator, information then relayed to the Township Engineer or Township inspector to follow-up with inspection. Once inspection is made it is determined the course of action required.

3. Do you maintain documentation of all responses, action taken, and the time required to take action?

☒ Yes ☐ No

#### **MCM #4 – CONSTRUCTION SITE STORM WATER RUNOFF CONTROL**

Are you relying on PA's statewide program for stormwater associated with construction activities to satisfy this MCM?  
☒ Yes ☐ No **(If No, complete all remaining questions for this MCM; if Yes, skip to MCM #5).**

**BMP #1: Develop your program consisting of all procedures necessary to comply with the requirements of this MCM. Your program shall provide for construction stormwater permitting, construction inspection, and enforcement of installation and maintenance of the necessary E&S control measures. Your program shall describe clearly how your program will be coordinated with DEP's NPDES Construction Stormwater Permitting program.**

**Measurable Goals:** For new permittees, the written program for this MCM shall be developed during the first year of permit coverage; nevertheless, you are responsible for implementation of this MCM during entire term of this permit, including the time you are developing your program.

For all permittees, your program shall be reviewed and updated during each year of permit coverage. The purpose of the written program is to establish clear roles and responsibilities for the implementation of the MCM #4 requirements. An agreement between the permittee, the CCD, and any other resources to be used by the permittee that clearly defines roles for each entity is recommended. If an agreement is made, you shall place and keep a written copy in your file, consistent with the Retention of Records requirements in this Permit. Please note that in accordance with Section A.2.h in Part A of the Authorization to Discharge, as the permittee you are responsible to ensure that implementation of all requirements under this Permit are fulfilled.

1. For new permittees only, attach the written stormwater associated with construction activities program to the first report submitted to DEP.

2. Are there agreements in place between the permittee, CCD and/or others? ☒ Yes ☐ No Exhibit A

3. Date of last update or revision to the stormwater associated with construction activities program: 3/2012

**BMP #2: The permittee shall enact, implement, and enforce an ordinance to require the implementation of erosion and sediment control BMPs, as well as sanctions to ensure compliance.**

**Measurable Goal:** Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance that meets all applicable requirements of this permit. (Non-municipal permittees shall develop and implement an SOP).



**Lower Allen Township**  
**MS4 Construction Site Stormwater Runoff Control Plan**

1. Use DEP statewide program
  1. Follow and require enforcement of the PaDEP Statewide Construction site Program, through NPDES Chapter 102 Construction Permits.
  2. Require Post Construction Stormwater Management (PCSM) Plans on projects where such requirement is applicable.
  3. Coordinate with Cumberland County Conservation district (CCCD) in administering the program.
  4. Maintain a Memorandum of Understanding (MOU) with the CCCD regarding coordination and administration of the program.
2. Review and update program, define roles and responsibilities
  1. Annually review the program, and the roles and responsibilities for Community Development Department personnel, as well as outside agencies with whom this effort is coordinated.
3. SWM ordinances
  1. Maintain and enforce the Act 167 Stormwater management Ordinance that has been adopted by the Township.
4. Construction site waste requirements, inspection, reporting
  1. Monitor and enforce work site waste requirements from applicable permits and standards.
  2. Conduct periodic site inspections for the express purpose of monitoring compliance with construction site waste requirements.
  3. When Township inspection personnel are on site for other inspection purposes, also check and report on site maintenance requirements.
5. Tracking system for information submitted by public
  1. Maintain a record of information submitted by the public, and inspection personnel.
  2. Document follow up and resolution of information submitted.

**Lower Allen Township MS4  
Reporting period March 10, 2013-March 31, 2104**

**Exhibit A**

MEMORANDUM OF UNDERSTANDING  
between the  
CUMBERLAND COUNTY CONSERVATION DISTRICT  
and

Lower Allen Township  
(name of municipality)

This Memorandum has been prepared jointly and agreed upon by each party for the following purposes:

To serve as a joint commitment by the signatory parties to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth which may result from the conduct of earthmoving activities in Lower Allen Township  
(name of municipality)

- I. In carrying out the intent of this memorandum, the Cumberland County Conservation District shall, within the limits of its capabilities:
  - a. Provide to Lower Allen Township  
(name of municipality) a listing of its plan review fees.

The District will promptly notify the municipality of any changes in the plan review fee schedule.
  - b. Receive all erosion and sedimentation control plans (Plan) as required under federal, state and local regulations. The District will conduct an administrative review of the submission within ten (10) days of receipt. The District will complete an initial review of the Plan within 30 calendar days after it is deemed administratively complete. Reviews of second and third Plan submissions (revisions) will be completed within 30 calendar days of their receipt.
  - c. Within five (5) working days of completion, notify the applicant and Municipality of all adequate Plan reviews as well as all determinations of inadequate Plan reviews. The District will charge additional fees as per adopted fee schedule after the third Plan submission due to inadequate information and/or a failure of the applicant to develop a Plan in compliance with PA DEP Chapter 102 Erosion and Sediment Control Rules and Regulations.
  - d. Upon request, provide all applicants with a DEP Erosion and Sediment Pollution Control Program Manual and related forms, worksheets, checklists, application package, etc., necessary to successfully prepare a Plan.
  - e. In accordance with a routine inspection schedule contained in the state Chapter 102 delegation with the District, and/or upon the request of the municipality and/or upon receipt of a request from a third party, inspect ongoing earthmoving projects and complete a standard DEP site inspection report. In conjunction with this responsibility, the District shall:
    - i. Advise the municipality of all third party complaints within 10 calendar days of their receipt
    - ii. Provide a copy of all inspection reports to the affected earthmover and municipality within two (2) calendar days upon their completion.
  - f. Serve as the repository for all Plans, complaints, inspection reports, correspondence, soils information, etc., that involve earthmoving activities. All such information shall be contained in a filing system which shall be available for inspection by municipal officials according to the Department of Environmental Protection (DEP) and Conservation District policy.
  - g. Upon request, provide the municipality with Chapter 102 Erosion and Sedimentation Control and National Pollutant Discharge Elimination System (NPDES) rules and regulations. The Conservation District will promptly notify the municipality of any changes to the rules and regulations.
  - h. Commit the necessary staff time and provide all information necessary to assist the Municipality in conducting enforcement proceedings specific to Erosion and Sedimentation Control, Chapter 102, if provided for in a Township Ordinance.

- i. Upon request by the Municipality, provide educational workshops relating to Erosion and Sedimentation Control topics, NPDES permitting, regulation changes, etc.

II. In carrying out this Memorandum, Lower Allen Township shall:  
(name of municipality)

- a. Retain sufficient quantity of the District's Erosion and Sediment Control Plan Review Applications and Review Fee Schedule and issue such forms to all parties for projects that require such a review in accordance with the provisions of a Township Ordinance. The Municipality shall provide instructions to have the Plans submitted to the District.
- b. Forward all questions pertaining to the preparation of Plans and Applications to the District.
- c. Forward all third party complaints about ongoing earth disturbance projects to the District for its inspection.
- d. The Municipality will not issue building permits or other permits for all construction activities that require coverage under General or Individual NPDES or Erosion Control Permit as per Title 25, Department of Environmental Protection Chapter 102 E & S Control (102.43 withholding permit) until notification from the District that such permits have been acknowledged or issued.
- e. Promote and ensure that temporary and permanent erosion and sedimentation measures are implemented and maintained on all earthmoving sites.

III. This Memorandum of Understanding shall become effective immediately. It shall be reviewed periodically, as the need arises by either or both parties and may be amended by mutual consent of both parties. This Memorandum of Understanding may be terminated at any time, by either party, following a thirty (30) day written notice to the other party.

FOR Lower Allen Township :  
(name of municipality)

Doddrick M. Gray Sr.  
(name)

2/23/04  
(date)

President Board of Commissioners  
(title)

FOR THE CUMBERLAND COUNTY CONSERVATION DISTRICT:

William E. Stagg  
(chairman)

03/24/04  
(date)



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**Cumberland County Conservation District**

310 Allen Road, Suite 301 - Carlisle, Pennsylvania 17013-9131  
Phone (717) 240-7812 - Fax (717) 240-7813 - [www.cumberlandcd.com](http://www.cumberlandcd.com)

**Municipal Notice to Conservation District for Earth Disturbance/Building Permit**

Please fill out or have the applicant fill out the information below to determine the need for an erosion control plan or NPDES permit for earth disturbance projects. As per DEP regulations, the municipality shall notify the District of any projects that disturb one acre or more. You may FAX or e-mail the completed form to the District. The District will respond to the municipality within five days of receiving the form.

Municipality: \_\_\_\_\_

Applicant: \_\_\_\_\_

Address: \_\_\_\_\_

Phone number/email: \_\_\_\_\_

Type of project: Residential/Commercial/Other: \_\_\_\_\_

Please circle

Does your project propose an earth disturbance more than 5000 square feet?

☐ Yes Please answer next question.

☐ No No further information required, however E&S BMP's may still be necessary on your project.

Does your project propose an earth disturbance of 1 acre or more?

☐ Yes NPDES Permit is required, unless part of a project that already has permit coverage.

☐ No If greater than 5000 square feet, and less than 1 acre, a written erosion control plan is required.

Project name and/or NPDES permit number if already permitted: \_\_\_\_\_

For additional assistance contact:

Cumberland County Conservation District  
310 Allen Road, Suite 301  
Carlisle, PA 17013

717-240-7812

FAX 717-240-7813

Kim Falvey [kfalvey@ccpa.net](mailto:kfalvey@ccpa.net)

Vince McCollum [vmccollum@ccpa.net](mailto:vmccollum@ccpa.net)

Brian Jaymes [bjaymes@ccpa.net](mailto:bjaymes@ccpa.net)

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**District Use:**

Technician \_\_\_\_\_

Project requires an NPDES Permit? ☐ Yes ☐ No

NPDES Permit Application received by the Conservation District? ☐ Yes ☐ No

NPDES Permit acknowledged or issued? ☐ Yes ☐ No

**STANDARD STORMWATER FACILITIES AND BEST MANAGEMENT PRACTICES (BMP)**  
**MAINTENANCE AND MONITORING AGREEMENT**

THIS AGREEMENT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between \_\_\_\_\_ (hereinafter the "Owner"), and \_\_\_\_\_, Cumberland County, Pennsylvania, (hereinafter "Municipality");

WITNESSETH

WHEREAS, the Owner is the owner of certain real property identified as (address) \_\_\_\_\_, Tax Parcel Number \_\_\_\_\_, (hereinafter "Property").

WHEREAS, the Owner is proposing to make improvements to the Property; and

WHEREAS, the Drainage Plan (hereinafter "Plan") for the Property which is expressly made a part hereof, as approved or to be approved by the Municipality, provides for detention, retention, infiltration and/or treatment of stormwater within the confines of the Property; and

WHEREAS, the Municipality and the Owner, successors, heirs and assigns agree that the health, safety, and welfare of the public require that on-site stormwater management facilities and BMPs be constructed and maintained on the Property; and

WHEREAS, the Municipality requires, through the implementation of its Stormwater Management Ordinance, that stormwater management facilities and BMPs as shown on the Plan be constructed and adequately maintained by the Owner, successors, heirs and assigns.

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

1. The on-site stormwater management facilities and BMPs shall be constructed by the Owner, successors, heirs and assigns, in accordance with the terms, conditions, details and specifications identified in the Plan.
2. The Owner, successors, heirs and assigns, shall maintain the stormwater management facilities and BMPs in good working condition, acceptable to the Municipality so that they are performing their design functions
3. The Owner, successors, heirs and assigns, hereby grant permission to the Municipality, its authorized agents and employees, upon presentation of proper identification, to enter upon the Property at reasonable times, and to inspect the stormwater management facilities and BMPs whenever the Municipality deems necessary. The purpose of the inspection is to assure safe and proper functioning of the facilities. The inspection shall cover the entire facilities, berms, outlet structures, pond areas, access roads, etc. When inspections are conducted, the Municipality shall give the Owner, successors, heirs and assigns, copies of



defend, at their own expense, any suit based on such claim. If any judgment or claims against the Municipality, its agents or employees shall be allowed, the Owner, successors, heirs and assigns shall pay all costs and expenses in connection therewith.

11. In the event of an emergency or the occurrence of special or unusual circumstances or situations, the Municipality may enter the Property, if the Owner is not immediately available, without notification or identification, to inspect and perform necessary maintenance and repairs, if needed, when the health, safety or welfare of the citizens is at jeopardy. However, the Municipality shall notify the Owner of any inspection, maintenance, or repair undertaken within five days of the activity. The Owner shall reimburse the Municipality for its costs.
12. It is agreed between the two entities known as Owner that they shall be bound jointly and severally by the terms, covenants and agreements herein.
13. Invalidation of any one of these provisions by judgement or Court Order shall in no wise affect any other provisions that shall remain in full force and effect.

**This Agreement shall be recorded at the Recorder of Deeds Office in Cumberland County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Owner, administrators, executors, assigns, heirs and any other successors in interests, in perpetuity.**

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF CUMBERLAND

On this the \_\_\_\_ day of \_\_\_\_\_, 20\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, known to me (or satisfactorily proven) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged that he/she/they executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and public official seal.

\_\_\_\_\_  
Notary Public

**ATTEST:**  
**(CORPORATE SEAL)**

**MUNICIPALITY:** \_\_\_\_\_

\_\_\_\_\_  
Secretary (Vice)President

By \_\_\_\_\_

\_\_\_\_\_  
(Municipal Governing Body)

**Measurable Goal:** Permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment and implementation of a stormwater management ordinance that meets all requirements of this permit.

1. For new permittees only, attach an ordinance (or SOP) and letter from an official, engineer or solicitor that addresses stormwater associated with construction activities to the first report submitted to DEP.

**BMP #3: Develop and implement requirements for construction site operators to control waste at the construction site that may cause adverse impacts to water quality. While sediment is the most common pollutant of concern for MCM #4, there are other types of pollutants that also can be a concern and the intent of this BMP is to address these other types of pollutants, such as, but not limited to, discarded building materials, washout from concrete trucks, chemicals, litter, and sanitary waste.**

**Measurable Goal:** New permittees shall establish requirements to address this BMP by the end of the first year of permit coverage. Renewal permittees shall continue to implement existing requirements and update as necessary. This could be implemented by written municipal ordinance/code provisions, by standard notes on the site plans, by any other written format that accomplishes the objectives of this BMP, or by any combination of these measures. The goal of this BMP shall be communicated to construction site operators during pre-construction meetings. This BMP shall be implemented during each year of the MS4 permit. Permittees must prepare and maintain records of site inspections, including dates and results and you must maintain these records in accordance with the Retention of Records requirements in this Permit.

1. Identify the mechanism(s) in place to regulate construction site operators and wastes produced at construction sites:

**BMP #4: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public (to the permittee) regarding local construction activities. The permittee shall demonstrate acknowledgement and consideration of the information submitted, whether submitted verbally or in writing.**

**Measurable Goal:** Permittees shall establish and implement a tracking system to keep a record of any submitted public information as well as your response, actions, and results. This BMP shall be implemented during each year of coverage under this General Permit and information should be submitted with the each periodic report.

1. Describe the tracking system established for documenting public information concerning local construction activities and describe responses taken during the reporting period:

See attached

#### **MCM #5 – POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**

Are you relying on PA's statewide program for MCM #5 BMPs #1 - #3?

☒ Yes ☐ No (If No, complete all remaining questions for this MCM; if Yes, skip to BMP #4)

**BMP #1: Develop a written procedure that describes how the permittee shall address all required components of this MCM. Guidance can be found in the Pennsylvania Stormwater Best Management Practices Manual.**

**Measurable Goal:** The written procedure shall be developed by the end of the first year of permit coverage and be reviewed and updated every permit year thereafter, as needed. The intent of BMP #1 is for the permittee to describe how the listed tasks will be accomplished.

1. For new permittees only, attach your written procedure for post-construction management to the first report.
2. Date of last review or update of post-construction management procedure: 3/31/14

**Lower Allen Township MS4 Report  
Reporting Period 2013-2014  
BMP#4**

- 1. Monthly Board of Commissioners' meetings allot time for public comment for any concerns regarding construction activities or concerns associated with such. Comments and any discussion are relayed by e-mail and are made available through the Township website.  
Any issues requiring a follow up or further action by Codes personnel are documented through the tracking system that has been set up for construction site activities.**

**Lower Allen Township**  
**MS4 Post-Construction Stormwater Management (PCSM) in New and Redevelopment Activities**  
**Plan**

1. DEP Statewide Program, for BMPs 1, 2 and 3
  1. Follow and require enforcement of the PaDEP PCSM requirements through NPDES Chapter 102 Construction Permits.
  2. Require Post Construction Stormwater Management (PCSM) Plans on projects where such requirement is applicable.
  3. Coordinate with Cumberland County Conservation district (CCCD) in administering the program.
  4. Maintain a Memorandum of Understanding (MOU) with the CCCD regarding coordination and administration of the program.
2. Program for use of BMPs; installation, inspection.
  1. Require conformance with the requirements in the Township's Act 167 Stormwater Management Ordinance.
3. BMP use and tracking
  1. Develop a system, using Geographic Information System (GIS) mapping and other tools to track the installation, maintenance and reporting of BMPs.
4. Installation inspection, tracking.
  1. Require inspection of new BMP installations in accordance with approved plans and permits prior to occupancy or use of new developments.
  2. Develop a system, using GIS mapping and other tools to track the installation inspection of BMPs.
5. Certify SWM Ordinance with Annual Report.
  1. Maintain and enforce a PaDEP-approved Act 167 Stormwater Management Ordinance.
  2. Provide information on the status of said ordinance in the Annual Report.
6. List and track all LID projects and BMPs since March, 2003; report progress in promoting LID.
  1. Develop a system, using GIS mapping and other tools to track the installation of BMPs that may be considered LID features.
  2. Report on progress to promote such features in accordance with the Public Education and Outreach MCM.

## STORMWATER MANAGEMENT SUMMARY

Project: \_\_\_\_\_

Date: \_\_\_\_\_

Drainage Area: \_\_\_\_\_ ID Number \_\_\_\_\_ Acres \_\_\_\_\_ Release Rate: \_\_\_\_\_

Note: Use a separate sheet for each Drainage Area.

Discharge Rates: cubic feet per second (cfs)	Design Year Storm Event					
	2	5	10	25	50	100
Pre-development discharge						
Allowable post-development discharge (per release rate)						
Post-development discharge to SWM facility						
Post-development bypass						
Post-development discharge from SWM facility						
Post-development combined routed discharge						

### WATER QUALITY REQUIREMENTS

Computed Water Quality Volume: \_\_\_\_\_ cubic feet

Proposed BMP(s) to meet the WQ requirements: \_\_\_\_\_

### GROUNDWATER RECHARGE REQUIREMENTS

Computed Groundwater Recharge Volume: \_\_\_\_\_ cubic feet

Proposed BMP(s) to meet GR requirements: \_\_\_\_\_

### GENERAL PROTECTION REQUIREMENTS

Dewatering Time: 1-year storm event: \_\_\_\_\_ hours

SWM Facility Maximum Capacity: \_\_\_\_\_ hours

	A	B	C	D	E	F	G
1	Lower Allen Township						
2	Tracking						
3	Lower Allen Township						
4				Identifier			
5	Empl	Location		Permit #	SLD or DP #	Other	Description of Actions
6	3/20/13 RJA	Meridian			SLD 2011-06		Construction entrance issues
7	4/1/13 RJA	2121 Cedar Run Dr.		20120014/41			BMP inspection.
8	4/1/13 REL	1719 Liberty Cove		20130051			site visit-no problems noted
9	4/3/13 REL	1736 Liberty Cove		20130001			site visit-no problems noted
10	4/8/13 RJA	Meridian					Silt bags missing. OK per CCCD.
11	4/9/13 DAY	2121 Cedar Run Dr.		20120014			Site visit. No drainage issues seen.
12	4/9/13 DAY	20130044					Site visit. No drainage issues seen.
13	4/10/13 REL	1719 Liberty Cove		20130051			site visit-no problems noted
14	4/10/13 RJA	2500 Gettysburg Rd					BMX site final
15	04/10/13 DJF	3508 Lisburn Road					Property owner Paul Nickalls advised that he had planted 21 Leyland Cypress trees on the property
16	04/10/13 REL	1719 Liberty Cove		20130051			silt fence needed reinstalled-concrete washout in driveway
17	04/11/13 REL	1254 Yarmouth Lane		20130069			site visit-no problems noted
18	04/11/13 REL	1250 Yarmouth Lane		20130068			site visit-no problems noted
19	4/12/13 RJA	2500 Gettysburg Rd					Re-inspection BMX basin outlet and silt fence.
20	4/14/13 DJF	5120 Simpson Ferry Rd					Phone: Rich Chubb re: potential development, new maintenance building
21	04/15/13 REL	4596 Manor Drive		20130096			site visit-no problems noted
22	04/17/13 REL	1271 Yarmouth Lane		20130049			site visit-no problems noted
23	04/17/13 REL	1275 Yarmouth Lane		20130050			
24	4/25/01 RJA	5024 Simpson Ferry Rd.		20120367			Final site inspection
25	4/26/13 RJA	2500 Gettysburg Rd					Site conditions.



Township of Lower Allen, PA  
Tuesday, June 24, 2014

## Chapter 184. STORMWATER MANAGEMENT

### Article V. Inspections, Operation and Maintenance

#### § 184-28. Schedule of inspections.

- A. The Municipal Engineer or his/her designee shall be permitted to inspect all phases of the installation of the permanent stormwater management facilities and BMPs.
- B. The Municipal Engineer or his/her designee shall be permitted to inspect all phases of the site development work in progress to insure compliance with erosion and sediment control requirements. Inspection functions under this Section may be delegated by the municipality to another entity, if such agreement is entered into by the municipality.
- C. During any stage of the work, if the Municipal Engineer determines that the permanent stormwater management facilities or BMPs are not being installed in accordance with the approved SWM site plan, the municipality shall revoke any existing municipal permits and/or issue a stop-work order until a revised SWM site plan is submitted and approved, as specified in this chapter.

#### § 184-29. Right of entry procedures.

- A. Upon presentation of proper credentials, duly authorized representatives of the municipality may enter at reasonable times upon any property within the municipality to inspect the implementation, condition or operation of the stormwater BMPs in regard to any aspect governed by this chapter.
- B. BMP owners and operators shall allow persons working on behalf of the municipality ready access to all parts of the premises for the purposes of determining compliance with this chapter.
- C. Persons working on behalf of the municipality shall have the right to temporarily locate on any BMP in the municipality such devices as are necessary to conduct monitoring and/or sampling of the discharges from such BMP.
- D. Unreasonable delays in allowing the municipality access to a BMP is a violation of this chapter.

#### § 184-30. Responsibilities of developers and landowners.

- A. The municipality shall make the final determination on the continuing maintenance and inspection responsibilities prior to final approval of the SWM site plan. The municipality may require a dedication of such facilities as part of the requirements for approval of the SWM site plan. Such a requirement is not an indication that the municipality will accept the facilities. The municipality reserves the right to accept or reject the ownership and operating responsibility for any portion of the stormwater management controls.
- B. Facilities, areas or structures used as stormwater management BMPs shall be enumerated as permanent real estate appurtenances and recorded as deed restrictions or conservation easements that run with the land.
- C. The operation and maintenance plan shall be recorded as a restrictive deed covenant that runs with the land.
- D. The municipality may take enforcement actions against an owner for any failure to satisfy the provisions of this article.
- E. No regulated activities shall commence until a BMP operations and maintenance plan (O&M plan) consistent with this chapter is approved by the municipality.
- F. The SWM site plan content requirements are applicable to the O&M plan and are incorporated herein by

reference. O&M plan requirements can be shown concurrently in the plan set with the SWM site plan requirements.

- G. The O&M plan shall establish responsibilities for the continuing operation and maintenance of all permanent stormwater facilities and BMPs, as follows:
  - (1) If a plan includes structures or lots which are to be separately owned and in which streets, sewers and other public improvements are to be dedicated to the municipality, stormwater facilities and BMPs may also be dedicated to and maintained by the municipality.
  - (2) If a plan includes operations and maintenance by a single owner, or if sewers and other improvements are to be privately owned and maintained, then the operation and maintenance of stormwater facilities and BMPs shall be the responsibility of the owner.
- H. The property owner shall execute a stormwater facilities and BMP maintenance and monitoring agreement with the municipality covering all stormwater facilities and BMPs that are to be privately owned. The agreement shall be in a form provided by the municipality.

## § 184-31. Municipal stormwater maintenance fund.

- A. If stormwater facilities are accepted by the municipality for dedication, persons installing stormwater facilities or BMPs shall be required to pay a specified amount to the municipal stormwater BMP operation and maintenance fund to help defray costs of operations and maintenance expenses. The amount of the deposit shall be determined as follows:
  - (1) If the stormwater facility or BMP is to be owned and maintained by the municipality, the deposit shall cover the estimated costs for operations and maintenance for 10 years, as determined by the municipality.
  - (2) The amount of the deposit to the fund shall be converted to the present worth of the annual series values.
- B. If a stormwater facility or BMP is proposed that also serves as a recreation facility (e.g., ballfield, lake), the municipality may reduce or waive the amount of the maintenance fund deposit based upon the value of the land for public recreation purpose.

## § 184-32. Post-construction maintenance and monitoring inspections.

- A. Stormwater facilities and permanent BMPs must be inspected in accordance with the O&M plan. The property owner has two options to accomplish this:
  - (1) Employing a qualified registered professional to conduct the inspections and prepare reports; or
  - (2) Entering into an agreement with the municipality for the municipality to conduct the inspections and prepare reports. This can be included in the stormwater facilities and BMP maintenance and monitoring agreement.
- B. If the option in Subsection A(1) is chosen, the entity conducting the inspection shall be required to submit a report to the municipality within one month following completion of the inspection. The report will present documentation regarding the condition of the facility and recommending necessary repairs, if needed. Any needed repairs shall be implemented by the owner within one month of the report issuance date.
- C. If the option in Subsection A(2) is chosen, the owner will be responsible for reimbursing the municipality for the costs involved, such reimbursement to be specified in the stormwater facilities and BMP maintenance and monitoring agreement.

## OPERATION AND MAINTENANCE PLAN FOR STORMWATER BMPs

### A. INSPECTIONS

1. Stormwater facilities and permanent BMPs must be inspected in accordance with this O & M Plan. The property owner has two options:
  - i. Employing a qualified registered professional to conduct the inspections and prepare reports. The entity conducting the inspection shall be required to submit a report to the Municipality annually. Reports shall be submitted by February 1 for inspections completed the previous year. The report shall document the condition of the facilities and recommend needed repairs. Recommended repairs and other corrective actions shall be implemented by the property owner within thirty days of the report date.
  - ii. Entering into an agreement with the Municipality for the Municipality to conduct the inspections and prepare reports. This can be included in the Stormwater Facilities and Best Management Practices (BMP) Maintenance and Monitoring Agreement (M & M Agreement). The property owner shall be responsible for reimbursing the Municipality for the costs involved in accordance with the M & M Agreement.
2. Open basins shall be inspected four times per year, and after every rain event exceeding one inch. Inspections of open basins shall include but not be limited to:
  - i. Structural integrity and operation of outlet structures and appurtenances.
  - ii. Stability of embankments and other soil areas.
  - iii. Integrity and condition of vegetation.
  - iv. Collection storage and release of stormwater in accordance with the facility design.
  - v. Sediment accumulation.
  - vi. Safety.
3. Subsurface storage facilities shall be inspected four times per year, and after every rain event exceeding one inch. Inspections of subsurface storage facilities shall include but not be limited to:
  - i. Structural integrity and operation of outlet structures and appurtenances.
  - ii. Stability of soil over and adjacent to the facility.
  - iii. Collection, storage and release of stormwater in accordance with the facility design.
  - iv. Sediment accumulation.
  - v. Safety.

### B. MAINTENANCE

1. Vegetation in and adjacent to basins shall be maintained in accordance with the approved plan and in accordance with Municipal Ordinances.
2. Debris shall be removed from basins on a quarterly basis. Floatable debris that may impact operation of the outlet structure shall be removed immediately.
3. Groundwater Recharge and Water Quality BMPs shall be observed quarterly during runoff events to insure operation as designed. BMPs shall be cleaned as required to insure continued operation as designed.
4. Maintenance and observation activities shall be documented in the Inspection Report.

**BMP #2: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions. This requirement can be met by ensuring that the selected BMPs comply with the municipal Stormwater Management Ordinance that meets the requirements of the permit.**

**Measurable Goal:** All qualifying development or redevelopment projects shall be reviewed to ensure that their post-construction stormwater management plans and selected BMPs conform to the applicable requirements. A tracking system (e.g., database, spreadsheet, or written list) shall be maintained to record qualifying projects and their associated BMPs. In your records, you shall note if there are no qualifying projects in a calendar year.

1. Number of development or redevelopment projects in urbanized area during reporting period: \_\_\_\_\_
2. Describe the tracking system in place:

3. Describe the structural and/or non-structural BMPs that were required for these projects:

**BMP #3: Ensure that controls are installed that shall prevent or minimize water quality impacts.**

**Measurable Goal:** All qualifying development or redevelopment projects shall be inspected during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly). Permittees not relying on DEP's statewide QLP to satisfy requirements under this BMP shall summarize construction inspections and results in periodic reports. See BMP #6 for requirements related to post-construction inspection and tracking of PCSM BMPs to ensure that the operation and maintenance plan is being implemented.

1. If there were development or redevelopment projects during the reporting period, attach to this report documentation of inspections of PCSM BMPs.

**BMP #4: The permittee shall enact, implement, and enforce an ordinance (municipal) or SOP or other regulatory mechanism (non-municipal) to address post-construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance, to the extent allowable under State or local law.**

**Measurable Goal:** Within the first year of coverage under this permit, new permittees shall enact and implement a stormwater management ordinance (municipal) or SOP (non-municipal) that meets the requirements of this General Permit.

**Measurable Goal:** All permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment of a stormwater management ordinance that meets the requirements of this General Permit.

1. Do you have an ordinance, SOP or other regulatory mechanism to address post-construction stormwater runoff from new and redevelopment projects and sanctions? ☒ Yes ☐ No If Yes, indicate the date of the ordinance or SOP: 2/14/11 (For new permittees only, attach a copy of the ordinance or SOP).
2. Attach an ordinance (or SOP) and letter from an official, engineer or solicitor that certifies the enactment of an ordinance or SOP for PCSM activities to the first report submitted to DEP.
3. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? ☒ Yes ☐ No

**LOWER ALLEN TOWNSHIP**

**ACT 167 STORMWATER MANAGEMENT ORDINANCE**

**ORDINANCE NO. 2011-01**

**LOWER ALLEN TOWNSHIP  
CUMBERLAND COUNTY, PENNSYLVANIA**

**This Ordinance amends the Code of the Township of Lower Allen by deleting existing Chapter 184, Stormwater Management, and replacing it with this new Chapter 184.**

**Adopted by the Lower Allen Township Board of Commissioners  
at a Public Meeting Held on February 14, 2011**

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Section 184-24	Resubmission of Disapproved Stormwater Management Site Plans
Section 184-25	Recording of Documents
Section 184-26	Authorization to Construct and Term of Validity
Section 184-27	As-Built Plans

### **Article V - Operation and Maintenance**

Section 184-28	Schedule of Inspections
Section 184-29	Right of Entry
Section 184-30	Responsibilities of Developers and Landowners
Section 184-31	Municipal Stormwater Maintenance Fund
Section 184-32	Post-Construction Maintenance and Monitoring Inspection



## **Article VI - Fees and Expenses**

Section 184-33	General
Section 184-34	Municipality SWM Site Plan Review Fee
Section 184-35	Expenses Covered by Fees
Section 184-36	Additional Costs

## **Article VII - Prohibitions**

Section 184-37	Prohibited Discharges and Connections
Section 184-38	Roof Drains and Sump Pumps
Section 184-39	Alteration of SWM BMPs

## **Article VIII - Enforcement and Penalties**

Section 184-40	Right-of-Entry
Section 184-41	Inspection
Section 184-42	Enforcement
Section 184-43	Suspension and Revocation
Section 184-44	Public Nuisances
Section 184-45	Enforcement Generally
Section 184-46	Enforcement Remedies
Section 184-47	Appeals

## **Article IX - References**

Appendix A: Stormwater Management Design Criteria

Appendix B: Cedar Run Watershed Release Rate Maps

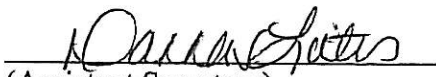
## II. CONCLUSIONS OF LAW

1. The Board of Commissioners has the power to enact Storm Water Management Ordinances under authority of Act 167 of 1978 as amended, the Pennsylvania Storm Water Management Act. (32 P.S. 680.1 *et seq.*)
2. The Township has complied with the requirements of Section 609 of the Pennsylvania Municipalities Planning Code (53 P.S. Section 10609, as amended) by providing for public notice and public hearing on this matter.
3. Enactment of Ordinance 2011-01 as proposed by the Staff will have no adverse effect on the public health, safety or morals of the citizens of the Township.

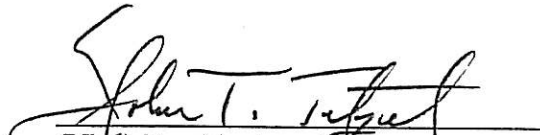
## III. DECISION

By reason of the foregoing, Enactment of Ordinance 2011-01 is approved.

ATTEST:  
(Corporate Seal)

  
(Assistant Secretary)

BOARD OF COMMISSIONERS  
OF LOWER ALLEN TOWNSHIP

  
(Vice) President

Sheet1

	A	B	C	D	E	F	G
1	Lower Allen Township						
2	Tracking						
3	Lower Allen Township						
4				Identifier			
5	Date	Empl	Location	Permit #	SLD or DP #	Other	Description of Actions
6	3/20/13	RJA	Meridian		SLD 2011-06		Construction entrance issues
7	4/1/13	RJA	2121 Cedar Run Dr.	20120014/41			BMP inspection.
8	4/1/13	REL	1719 Liberty Cove	20130051			site visit-no problems noted
9	4/3/13	REL	1736 LibertyCove	20130001			site visit-no problems noted
10	4/8/13	RJA	Meridian				Silt bags missing. OK per CCCD.
11	4/9/13	DAY	2121 Cedar Run Dr.	20120014			Site visit. No drainage issues seen.
12	4/9/13	DAY	20130044				Site visit. No drainage issues seen.
13	4/10/13	REL	1719 Liberty Cove	20130051			site visit-no problems noted
14	4/10/13	RJA	2500 Gettysburg Rd				BMX site final
15	04/10/13	DJF	3508 Lisburn Road				Property owner Paul Nickalls advised that he had planted 21 Leyland Cypress trees on the property
16	04/10/13	REL	1719 Liberty Cove	20130051			silt fence needed reinstalled-concrete washout in driveway
17	04/11/13	REL	1254 Yarmouth Lane	20130069			site visit-no problems noted
18	04/11/13	REL	1250 Yarmouth Lane	20130068			site visit-no problems noted
19	4/12/13	RJA	2500 Gettysburg Rd				Re-inspection BMX basin outlet and silt fence.
20	4/14/13	DJF	5120 Simpson Ferry Rd				Phone: Rich Chubb re: potential development, new maintenance building
21	04/15/13	REL	4596 Manor Drive	20130096			site visit-no problems noted
22	04/17/13	REL	1271 Yarmouth Lane	20130049			site visit-no problems noted
23	04/17/13	REL	1275 Yarmouth Lane	20130050			
24	4/25/01	RJA	5024 Simpson Ferry Rd.	20120367			Final site inspection
25	4/26/13	RJA	2500 Gettysburg Rd				Site conditions.

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26	04/26/13	RJA	1646 Lowell Lane	20130171			site visit-no problems noted
27	04/29/13	RJA	1410 Wellgate Lane	20130363			regrading needed right of driveway
28	05/01/13	REL	1271 Yarmouth Lane	20130049			washout on adjoining lot-no liner in pit
29	05/01/13	REL	1275 Yarmouth Lane	20130050			Wash out on adjoining lot not in a lined pit
30	05/02/13	DJF	1646 Lowell Lane				Phone: T. McCurdy re: drainage plan modification
31	5/2/13	RJA	3713 Lisbon Rd				Site visit. Grading not complete.
32	5/7/13	DJF	4600 Gettysburg Rd				Engineer re: basin bioretention plants
33	05/07/13	RJA	1410 Wellgate Lane	20130363			site visit-no problems noted
34	05/07/13	REL	4596 Manor Drive	20130096			site visit-no problems noted
35	05/08/13	DJF	5120 Simpson Ferry Rd				Phone: Rich Chubb re: SWM requirements for new maintenance building
36	5/9/13	RJA	5024 Simpson Ferry Rd.	20120367			2 <sup>nd</sup> final site inspection
37	5/10/13	DJF	244 Deerfield Road				Field: Exc. And Fill Permit application
38	5/10/13	DJF	1410 Wellgate Lane				Inspect roadside swale
39	5/10/13	DJF	Yellow Breeches Farm				Inspect basins (2)
40	5/10/13	DJF	4075 Lisbon Road				Check new rain garden operation
41	5/10/13	DJF	4910 Whitlock Lane				Inspect swale operation
42	5/10/13	DJF	4902 Whitlock Lane				Inspect UG storage facility
43	5/10/13	DJF	5024 Simpson Ferry Rd.				Site inspection
44	05/16/13	RJA	4910 Whitlock Lane	20120162			verified stability of drainage swale-ok
45	5/17/13	RJA	MS4 Mtg. w/DEP, CCCD				8 hr training Designing the Next Generation of SW Practices
46	05/21/13	JLJH	1424 Main St., Lisbon				Black Landscaping planting 13 trees on property
47	05/23/13	DJF	5026 Ravenwood Rd				Check swale
48	05/23/13	RJA	2121 Cedar Run	20120014			pins/monuments missing
49	5/23/13	RJA	2121 Cedar Run Dr.	20120014/41			Final site inspection
50	05/24/13	REL	2121 & 2141 Cedar Run Dr	20120014			missing corner pins, to monitor rain gardens and place stones at downspout outlets as needed
51	5/24/13	RJA	4950 Wilson Ln				File drainage plan for rooftop drains to existing basins. No grading proposed.
52	5/24/13	RJA	1730 Liberty Cove	20130173			Drainage plan review.

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	A	B	C	D	E	F	G
53	05/28/13	REL	1254 Yarmouth Lane	20130069			site visit-no problems noted
54	05/31/13	DJF	1646 Lowell Lane				Phone: T. McCurdy re: SWM
55	5/31/13	RJA	Phase III Beacon Hill				Site meeting w/ Haubert.
56							Site mtg. W/ Ron Sisti re: observed shean on water. Appeared to be natural surface accumulation. Advised to contact if condition persisted.
57	6/4/13	DJF	21 Santa Maria Ave.				Memo to Liberty.
58	6/4/13	RJA	Yellow Breches Farm				Site grading inspection.
59	6/10/13	RJA	5026 Ravenwood Rd				Phone: Dave Shope, Hampton Const. Re: completion of basins
60	6/11/13	DJF	Beacon Hill Phase III		SLD 2005-22		
61	6/12/13	DJF	4641 Westport Drive - MEPS				Site inspection. Calls to Ed Black and George Bellish.
62	6/12/13	DJF	5026 Ravenwood Rd				Check swale
63	06/12/13	RJA	4915 Whitlock Lane	20120558			site well seeded & germination is over 60% complete
64	06/17/13	REL	4513 Woods Way	20130155			must grade in rear yard, maintain E&S controls
65	06/18/13	DJF	Beacon Hill Phase III		SLD 2005-22		Phone: Dave Shope, Hampton Const. Re: completion of basins
66	06/18/13	RJA	4596 Manor Drive	20130096			site visit-no problems noted
67	6/19/13	RJA	Hunters Ridge Beacon Hill				Site inspection for erosion w/Jeanie Schappell.
68	6/20/13	DJF	Beacon Hill Phase III		SLD 2005-22		Phone: Dave Shope, Hampton Const. Re: completion of basins
69	6/26/13	RJA	Phase III Beacon Hill				Site inspection inlets
70	07/01/13	RJA	1607 Cobble Ct	20130224			grading to be confined to flat area, to install silt fence
71	07/09/13	DJF	5120 Simpson Ferry Rd				Phone: Scott Akens re: SWM requirements for new maintenance building
72	07/11/13	RJA	5120 Simpson Ferry Rd	20120594			BMP not recorded and driveway/turnaround issues
73	07/11/13	RJA	1626 Lowell Lane	20130264			Missing silt fence and bag at inlet.
74	07/12/13	REL	1607 Cobble Ct	20130224			site visit-no problems noted
75	7/12/13	RJA	1607 Cobble Ct	20130224			E and S controls. Turk to toe in bottom of silt fence.
76	07/12/13	RJA	1312 Brewster Ct	20130290			concrete washed into st & strmwtr inlet
77	07/15/13	RJA	1347 Sconset Way	20120560			site visit-no problems noted
78	07/17/13	REL	1626 Lowell Lane	20130264			to install silt fence and inlet protection
79	07/17/13	REL	4513 Woods Way	20130155			yard to be graded and seeded

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	A	B	C	D	E	F	G
79	07/17/13	RJA	1254 Yarmouth Lane	20130069			needs seeded & st tree
80	7/17/13	RJA	Beacon Hill Phase III				End cap missing from SW pipe behind 1254 Yarmouth. Turk and Dallas both know.
81	7/17/13	RJA	1607 Cobble Ct	20130224			Silt fence ok.
82	7/19/13	RJA	5024 Simpson Ferry Rd.				Inspected sink hole at inlet box.
83	07/22/13	RJA	1626 Lowell Lane	20130264			misc issues/contacted construction co
84	7/23/13	RJA	1316 Brewster Ct	20130297			Unprotected inlets. No silt fence. E-mail sent to Classic.
85	7/23/13	RJA	1626 Lowell Ln	20130264			Contractor was working on silt bags. Silt fence is pending.
86	7/24/13	RJA	5024 Simpson Ferry Rd.	20120367			Bags were removed from inlets. Reparing needed.
87	7/26/13	RJA	1626 Lowell Ln	20120264			Silt fence and bags in place.
88	7/26/13	RJA	1316 Brewster Ct	20130297			Silt fence and bags in place.
89	08/01/13	RJA	2700 Yetter Ct	20120383			site visit-no problems noted
90	08/05/13	DJF	850 Lisburn Rd		SLD 2013-05		Phone: Matt Fisher re: SWM calculations
91	08/09/13	DJF	4641 Westport Drive -- MEPS				Site inspection w/contractor
92	08/12/13	JME	1525 Slate Hill Rd	20130363			Inspect soil scarification for on lot sewage disp system
93	08/13/13	DJF	St Johns Road				Check storm sewer system operation
94	08/13/13	DJF	Oneida Road				Check storm sewer system operation
95	08/13/13	DJF	4600 Gettysburg Rd		SLD 2013-01		Phone: John Ortenzio re: SWM BMP Maint. Agreement
96	08/15/13	DJF	4600 Gettysburg Rd		SLD 2013-01		Phone: John Ortenzio re: SWM BMP Maint. Agreement
97	8/16/13	RJA	1736 Liberty Cove	20130001			Site grading failed.
98	8/21/13	DJF	4600 Gettysburg Rd		SLD 2013-01		Phone: John Ortenzio re: SWM BMP Maint. Agreement
99	8/21/13	DJF	1736 Liberty Cove				Inspect swale operation
100	08/22/13	DJF	1736 Liberty Cove				Phone: Kyle Oliver re: swale operation
101	08/27/13	REL	1251 Yarmouth Lane	20130298			site visit-no problems noted
102	08/27/13	RJA	1275 Yarmouth Lane	20130050			site visit-no problems noted
103	08/29/13	RJA	2419 New York Ave				site visit-must be reseeded at corner of property
104	8/29/13	RJA	4513 Woods Way	20130155			Site final inspection.
105	8/29/13	RJA	1718 Liberty Cove	20100638			Site final inspection.
106	08/30/13	DJF	4641 Westport Drive -- MEPS				Phone: JVH re: swale repairs
107	08/30/13	DJF	3400 Hartzdale Dr. - Walmart		SLD 2012-07		Phoen re: Preconstruction site meeting



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	A	B	C	D	E	F	G
108	09/04/13DJF		Beacon Hill Phase III		SLD 2005-22		Phone: Dave Shope, Hampton Const. Re: completion of basins
109	09/04/13DJF		850 Wesley Drive				Meeting w/owner and surveyor re: potential subdivision
110	09/11/13RJA		4513 Woods Way	20130155			site visit-no problems noted
111	09/12/13DJF		3400 Hartzdale Dr. - Walmart		SLD 2012-07		Preconstruction site meeting
112	09/12/13DJF		3420 Simpson Ferry Rd				Phone: Matt Pitts, Rettew, re: SWM requirements for building addition
113	09/13/13DJF		LAT				Phone: Paul Rodrigo, Fairview Twp. MS4 Coordinator, re: MS4 program
114	09/17/13RJA		1660 Lowell Lane	20120559			site visit-no problems noted
115	09/17/13DJF		1633 Sheepford Road				Phone: Jason Osterlund re: Exc. And Fill Permit requirements
116	9/18/13RJA		2700 Yetter Court	20120383			Site inspection for Temp CO.
117	9/18/13RJA		1525 State Hill Rd	20130363			SW and Plot plan review.
118	9/20/13DJF		Beacon Hill Phase III		SLD 2005-22		Phone: Walt Pechatka re: conversion from temp. to permanent basins
119	9/30/13DJF		LAT				Phone: Drew Bither, Fairview Township, re: MS4 program/meeting
120	10/02/13RJA		1525 State Hill Rd	20130363			BMP siting.
121	10/03/13DJF		Wesley Drive/BVWC				Phone: Dan Storm, PennDOT, re: sinkhole in drainage swale
122	10/03/13RJA		5120 Simpson Ferry Rd				Cell tower final. Confirmed driveway width reduced.
123	10/03/13DJF		Meridian		SLD 2011-06		Phone: Dave Kegerize re: additional impervious coverage for fire pit construction
124	10/07/13RJA		1719 Liberty Cove	20130051			site visit-no problems noted
125	10/07/13DJF		25 Essex Road				Storm inspection: storm manhole operation
126	10/07/13DJF		Yorkshire/Oxford				Storm inspection: street drainage
127	10/07/13DJF		Chatham/Elmhurst				Storm inspection: street drainage
128	10/08/13DJF		1633 Sheepford Road				Phone: Jason Osterlund re: Exc. And Fill Permit requirements
129	10/09/13RJA		1316 Brewster Ct	20130297			to flatten down bottom of channels & grade down evergreen berm
130	10/10/13RJA		1250 Yarmouth Lane	20130068			site visit-no problems noted

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	A	B	C	D	E	F	G
131	10/10/13	REL	1316 Brewster Ct	20130297			site visit-no problems noted
132	10/11/13	DJF	2010 State Rd				Phone: Rick Jordan III re: storm inspection on property, rear swale
133	10/11/13	DJF	2010 State Rd				N/S culvert from Camp Hill-90% flow, had been over concrete blocks. Brewhouse culvert clogged, slow. Steady flow out of inlet from State Rd.
134	10/11/13	DJF	1993 Hummel Ave.			MS4	
135	10/11/13	DJF	18 <sup>th</sup> St. RR crossing			MS4	Pump operating; basin half full
136	10/11/13	DJF	l-83 ramp at Shoreham			MS4	Clear, draining well
137	10/11/13	DJF	Chatham Rd/Elmhurst Rd			MS4	PennDOT infield pond full, discharging through temp outlet-structure. No flow in parallel swale on Shoreham side of ramp.
138	10/11/13	DJF	Norman Rd system			MS4	Draining. Appears that no flow over ramp to sidewalk.
139	10/11/13	DJF	1301 Carlisle Rd. - CCHS			MS4	Draining well
140	10/11/13	DJF	135 Brianwood Ct.		SLD 2008-11		Rain garden - moderate storage
141	10/11/13	DJF	Allendale trail			MS4	Ponding in front of driveway, but draining to inlet. Appears that no flow over sidewalk.
142	10/11/13	DJF	Olmsted Way culvert			MS4	Water over trail at trail junction; trail above water back towards Creekwood Dr. Boardwalk 1 just above water surface.
143	10/11/13	DJF	Edgar Lane			MS4	Good drainage in upstream rock-lined channel
144	10/11/13	DJF	2013 paved streets: Willow, Holly; Sussex Cir., Florence, Walnut/Forge, Fox Hollow Rd. and Cir., High Meadow Lane, Yorkshire, Stuart, Eton, Seneca.			MS4	Moderate flow at existing gabion wall
145	10/11/13	DJF	2700 Yetter Ct		SLD 2012-01	MS4	All OK.
146	10/11/13	DJF	Sheepford Crossing-Lisburn Rd basin			MS4	Basin full, draining through temp outlet overflow structure
147	10/11/13	DJF	Sheepford Crossing-Ewe Rd basin			MS4	Minimal storage
						MS4	No storage, minimal flow

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	A	B	C	D	E	F	G
148	10/11/13DJF		Meridian		SLD 2011-06		Main channel – full flow, discolored. Basin: full, flow through structure openings, WS elevation 1 foot below overflow grate.
149	10/11/13DJF		Brandon Rd			MS4	Water ponding, south side, near cross pipe.
150	10/11/13DJF		Thompson Lane			MS4	Parallel swale clearing needed, 2 locations in 1500 Block
151	10/11/13DJF		Liberty Point/Cove		SLD 2004-09		Roadside swales working well
152	10/11/13DJF		Lisburn Rd at Raven Hill			MS4	WS elevation at top of culvert – road open
153	10/11/13DJF		1410 Wellgate Lane	20120363			Roadside swale/drainage structures – OK
154	10/11/13DJF		Allen Estates		SLD 95-34		Ashburn basin – no storage
155	10/11/13DJF		Yellow Breeches Farm		SLD 2004-07		Basin 1: Full, flow through overflow grate. Basin 2: minimal storage
156	10/11/13DJF		Yellow Breeches Farm/Lisburn Rd			MS4	Inlet clogged, flow across road, ponding. Downstream across road – OK.
157	10/11/13DJF		4075 Lisburn Rd.LACP				Parking area seeding OK, minimal channelization near play-ground
158	10/11/13DJF		Manor at Fair Oaks		SLD 2002-06		Full up to large rect. Orifice, flow through orifice. WS elev. About 3 feet from top grate.
159	10/11/13DJF		5017 Hart Crossing			MS4	Fill being stockpiles, no silt fence.
160	10/11/13DJF		4641 Westport Drive – MEPS			MS4	Previous clean flow through rock channel; no overflow or silt present.
161	10/11/13DJF		4545 Westport Drive – VFW		SLD 2005-25		Some storage in swale/trench
162	10/11/13DJF		Westport – large basin			MS4	Minimal storage
163	10/11/13DJF		Village of Moreland Basin			MS4	Moderate storage; about 3 feet from top of discharge pipe
164	10/11/13DJF		900 Century Drive		SLD 2005-03		Minimal storage in basin
165	10/11/13DJF		910 Century Drive		SLD 2004-05		Moderate storage in basin at stone berm
166	10/11/13DJF		950 Woodland St. - wooded basin on Century Drive			MS4	No storage
167	10/11/13DJF		Century Drive – large culvert under drive at cul-de-sac			MS4	No flow
168	10/11/13DJF		UMHC/Weis Market basin		SLD 96-32		Full, up to pump junction box
169	10/11/13DJF		5030 Arthur Ave. - Brown Auto Body		SLD 2008-05		Minimal storage in rain gardens
170	10/11/13DJF		5024 Simpson Ferry Rd. - WSWD		SLD 2012-02		Moderate storage in rain gardens

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	A	B	C	D	E	F	G
171	10/11/13 DJF		4713 Gettysburg Rd. - Bortek			MS4	Flow across parking lot, not deep
172	10/11/13 DJF		18 Palmer Drive - Cedar Run branch			MS4	Channel flow near top of discharge pipe; endwall extends into channel, narrows flow.
173	10/11/13 DJF		3950 Hartzdale Dr. - Progressive Ins.		SLD 2005-21		Storage in basin near top of stone berm
174	10/11/13 DJF		1250 St. Johns Rd. - Skyline Steel			MS4	Storage behind temp. stone berm; significant overflow
175	10/11/13 DJF		3825 Hartzdale Dr. - Servants Heart			MS4	Front swale flowing well; moderate basin storage
176	10/11/13 DJF		Fernwood Ave. on-street parking			MS4	Minimal storage in rain garden
177	10/11/13 DJF		Seneca/Oneida			MS4	Pump not running; no ponding in Oneida
178	10/11/13 DJF		St Johns Rd. system			MS4	Normal gutter flow
179	10/11/13 DJF		3400 Hartzdale Dr. - Walmart		SLD 2012-07		Temp. basin full, flow into overflow structure. Adjacent wet-lands: consistent sheet flow across area
180	10/11/13 DJF		3300 Hartzdale Dr. - Hartzdale Plaza			MS4	No storage in basin
181	10/11/13 JME		3601 Simpson Ferry Rd, Trinity HS	20120516			Written notice to applicant/responsible design professional regarding need to repair SWM system discharge area
182	10/14/13 DJF		UMHC/Weis Market basin		SLD 96-32		Basin drained, working properly
183	10/14/13 DJF		4641 Westport Drive - MEPS			MS4	Small amount of silt in parking lot drive - did not appear to be connected to slope/rock swale. No other evidence of flow from slope.
184	10/14/13 DJF		Yellow Breeches Farm		SLD 2004-07		Basin 1: completely drained, small amount of residual water behind stone berm. Check design modification.
185	10/14/13 DJF		4075 Lisburn Rd. LACP				Parking area seeding OK, minimal channelization near play-ground. Check this week for germination.
186	10/14/13 DJF		4075 Lisburn Rd. LACP				Nature Trail Bridge-no problem from flood, performed as de-signed.
187	10/14/13 DJF		Allendale trail			MS4	Inspected structures - no problems, performed as designed. Grass missing in some trail locations, could be from wear and/or siltation from flood. Water had been about 4 feet deep; now drained and walkable.

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	A	B	C	D	E	F	G
188	10/14/13	DJF	2202 Gettysburg Rd. - LASC			MS4	Checked large bar screen and channel at rear of shopping center. OK.
189	10/14/13	JME	Slate Hill/Limekiln Road Bridge				Reported flood debris blocking 3 of 4 arches to Kirk Stoner at Cumb. Co. Planning Dept. near Sheepford Crossing MS4 system outfall in Yellow Breeches Creek
190	10/15/13	JME	Slate Hill/Limekiln Road Bridge			MS4	Kirk Stoner confirmed that York Co. was notified re: removal of flood debris at bridge
191	10/15/13	RJA	1251 Yarmouth Lane	20130298			ponding in rear yard, gutters not installed, trench formed to drain yard
192	10/15/13	LJH	Lower Allen Comm Park				8 October Glory maple trees planted
193	10/17/13	DJF	2233 Gettysburg Road				Tour of SWM BMPs at Township Office with representatives from Mechanicsburg Area Environmental Group.
194	10/21/13	JME	2700 Yetter Court	20120383			Observed ongoing conversion of SWM basin from construction to permanent control—grading and installation of topsoil
195	10/23/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
196	10/24/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
197	10/24/13	RJA	4915 Ritter Road	20130443			site visit -no problems noted
198	10/24/13	REL	3400 Hartzdale Dr. - Walmart	20130129		MS4	Concrete washout installed near job trailer lined with plastic
199	10/24/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
200	10/25/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
201	10/25/13	RJA	1719 Liberty Cove				Grading issues to be resolved
202	10/25/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
203	10/28/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
204	10/28/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
205	10/29/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
206	10/29/13	JME	2700 Yetter Court	20130129			Observed final grading, soil stabilization was completed around SWM basin.
207	10/29/13	JME	5225 Wilson Lane			MS4	Observed sinkhole in SWM basin and reported to RJA & DJF
208	10/29/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
209	10/29/13	RJA	1626 Lowell Lane	20130264			bottom of silt fence to be anchored
210	10/30/13	RJA	1271 Yarmouth Lane	20130049			site visit-no problems noted



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	A	B	C	D	E	F	G
211	10/30/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
212	10/30/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
213	10/30/13	RJA	1251 Yarmouth Lane	20130298			owner directed to provide drainage plan to be recorded to show modified yard drainage
214	10/30/13	DJF	LAT				Contact: Mike Hickman, DEP, re: MS4 Permit requirements
215	10/31/13	RJA	4553 Manor Drive	20130268			silt fence to be placed at bottom of slope
216	10/31/13	DAY	3400 Hartzdale Drive	20130129			site visit -no problems noted
217	10/31/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
218	11/04/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
219						MS4	Received E & S complaint from homeowner re: suspected problem with CLA SWM facilities; informed DJF, initiated RFS with LJH
220	11/04/13	JME	1525 Slate Hill Road				Site inspection
221	11/05/13	DJF	4600 Gettysburg Rd		SLD 2013-01		Final inspection for site BMPs.
222	11/05/13	DJF	2700 Yetter Court		SLD 2012-01		phone conversation regarding e&s controls & maintenance
223	11/05/13	RJA	4600 Gettysburg Rd	20130539			site visit-no problems noted
224	11/05/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
225	11/06/13	DJF	18 Hartzdale Drive				Site inspection: stream channel
226	11/06/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
227	11/12/13	REL	1263 Yarmouth Lane	20130501			site visit-no problems noted
228	11/12/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
229	11/12/13	REL	1267 Yarmouth Lane	20130502			site visit-no problems noted
230	11/13/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
231	11/13/13	DAY	4915 Ritter Road	20130443			site visit-no problems noted
232	11/14/13	RJA	LAT				ADS product demonstration.
233	11/14/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
234	11/15/13	REL	1263 Yarmouth Lane	20130501			site visit-no problems noted
235	11/15/13	REL	1267 Yarmouth Lane	20130502			site visit-no problems noted
236	11/15/13	DAY	4915 Ritter Road	20130443			site visit-no problems noted
236	11/15/13	RJA	Meridian			MS4	Observed grading at the car wash. Inlet boxes are protected at the work site. Car wash is not in use. Hose is disconnected. Spoke to landscaper about pending Grasspaver access.



## Sheet1

	A	B	C	D	E	F	G
237	11/18/13	RJA	925 Sheely Lane				Salt crib constructed in the Flood Plain
238	11/19/13	DAY	3400 Hartzdale Drive				site visit-no problems noted
239							Observed that the lawn area between unapproved carwash and Lisbon Rd had been re-graded and was not yet stabilized. Reported to DJF/RJA
	11/19/13	JME	Meridian			MS4	site visit-no problems noted
240	11/20/13	REL	1267 Yarmouth Lane	20130502			site visit-no problems noted
241	11/22/13	DAY	3400 Hartzdale Drive	20130129			site visit-no problems noted
242	11/25/13	REL	1267 Yarmouth Lane	20130502			site visit-no problems noted
243	11/25/13	REL	1263 Yarmouth Lane	20130501			site visit -no problems noted
244	11/25/13	RJA	1607 Cobble Ct	20130224			Notified Haubert Homes silt fence needs repaired in areas
245	11/26/13	DJF	400 Block Deerfield Road				Inspection: sinkhole
246	11/27/13	DJF	400 Block Deerfield Road				Inspection: sinkhole
247	12/2/13	DJF	400 Block Deerfield Road				Inspection: sinkhole
248	12/2/13	DJF	Highpoint Prelim. SD/LD		SLD 2013-08		Phone: Dave Kegerize re: SWM comments
249	12/2/13	JME	1728 Main St	20130566			Reminded contractor about concrete wash water requirements while doing footing inspection
250							While checking status of site restoration from temporary use of vacant lot as a staging area for Turnpike milling & paving contractor, I verified that E & S controls were being maintained.
251	12/3/13	JME	1540 Sheepford Road	20130346			site visit -no problems noted
252	12/3/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
253	12/3/13	RJA	4600 Gettysburg Rd	20130539			Contractor notified stone must be added to construction entrance
254	12/04/13	RJA	5017 Hart Crossing	20130535			Witnessed easterly UG BMP and inlet structures placed. Silt fence and construction entrance w/tire wash in compliance. Temporary BMP measures are being maintained.
255	12/05/13	RJA	3400 Hartzdale Dr. - Walmart	20130129			site visit -no problems noted
256	12/05/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
257	12/11/13	RJA	4600 Gettysburg Rd	20130539			site visit -no problems noted
258							Observed covering of UG SWM basin at NE lot corner with topsoil originating at Liberty/Pavex stockpile on State Hill Rd. Reported same to DJF, RJA. RCEs and wheel washing appear to be keeping mud off streets.
259	12/12/13	JME	3400 Hartzdale Dr. - Walmart	20130129			site visit -no problems noted
260	12/12/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted

## Sheet1

	A	B	C	D	E	F	G
259	12/17/13	DAY	4915 Ritter Road	20130443			site visit -no problems noted
260	12/23/13	DJF	Edgar Lane Channel				Phone: Vince McCollum, CCCD, re: E&S Control requirements
261	12/23/13	RJA	5017 Hart Crossing	20130535			Construction entrance re-established.
262	12/30/13	DJF	5225 Wilson Lane BVW				Phone: Chris Hoover re: SWM requirements for potential building addition
263	1/3/14	DJF	Edgar Lane Channel				Filed meeting w/Vince McCollum, CCCD, re: E&S Control requirements
264	1/6/14	DJF	4732 Gettysburg Road		SLD 2014-02		Phone: Frank Lentz re: SWM requirements
265	1/9/14	REL	1656 Lowell Lane	20130562			site visit -no problems noted
266	1/13/14	DJF	LAT			MS4	Phone: Jared Hockenberry, GHD/East Pennsboro Twp., re: MS4/CBPRP
267	1/13/14	REL	5017 Hart Crossing	20130535			site visit -no problems noted
268	1/15/14	DJF	4732 Gettysburg Road		SLD 2014-02		Phone: Frank Lentz re: SWM requirements
269	1/15/14	RJA	5017 Hart Crossing	20130535			Large clumps of mud in the street. Stone at construction entrance is not visible. Builder contacted.
270	1/15/14	DAY	4915 Ritter Road	20130443			site visit -no problems noted
271	1/15/14	DJF	LAT			MS4	Inspect street/gutter and roadside swale portions of Township MS4. Approximately 1/3 of entire system.
272	1/16/14	DJF	LAT			MS4	Inspect street/gutter and roadside swale portions of Township MS4. Approximately 1/3 of entire system.
273	1/16/14	DJF	LAT			MS4	Phone: Jared Hockenberry, GHD/East Pennsboro Twp., re: MS4/CBPRP
274	1/16/14	RJA	1656 Lowell Lane	20130562			PPL tracked mud into street. Builder contacted.
275	1/17/14	DJF	LAT			MS4	Inspect street/gutter and roadside swale portions of Township MS4. Approximately 1/3 of entire system.
276	1/17/14	DJF	Moreland Court				Meeting w/John Clark re: potential development
277	1/21/14	RJA	4915 Ritter Road	20130433			Asked Kevin of Wiker to maintain near overflowing concrete washout pit.
278	1/29/14	DJF	LAT			MS4	Training: MS4 Workshop sponsored by Chesapeake Bay Foundation
279	1/29/14	DJF	18 Hartzdale Drive				Phone: Tiffany Trea, DEP, re: Permit application
280	1/30/14	DJF	18 Hartzdale Drive				Phone: Tiffany Trea, DEP, re: Permit application
281	1/30/14	DJF	2500 Lisburn Road SCIC			MS4	Phone: Carol Piontkowski, DOC, re: joint MS4 training

## Sheet1

	A	B	C	D	E	F	G
282	1/30/14 DJF		Lemoyne Borough			MS4	Phone: John Paden, Lemoyne Borough, re: joint MS4 training
283	1/31/14 DJF		4732 Gettysburg Road		SLD 2014-02		Design review phase site inspection
284	1/31/14 RJA		MS4 annual inspection			MS4	Field work for MS4 report.
285	2/3/14 RJA		3717 Lisbon Rd	N/A			Letter to owner regarding drainage and exemption from E and F permit.
286	02/03/14 RJA		53 Center Dr.	N/A			Placed plan in file for completed site drainage work. Permit was not needed.
287	2/3/14 RJA		241 Deerfield Rd	N/A			Placed plan in file for completed site drainage work. Permit was not needed.
288	2/4/14 RJA		130 Winston	Pending			Checked for mud in the street.
289	2/4/14 DJF		Shiremanstown Borough			MS4	Phone: Mike Weaver, Shiremanstown Borough, re: joint MS4 training
290	2/6/14 RJA		4915 Ritter Road				Site inspection. Utility cut.
291	2/7/14 RJA		LAT				MS4 Training
292							Annual MS4 Training for LAT Public Works, Fleet Management and Community Development personnel. Also included employees from other MS4s: Lemoyne Borough; Shiremanstown Borough; New Cumberland Borough; Monroe Township; Pa. Department of Corrections
293	2/7/14 DJF		LAT			MS4	MS4 Program review meeting
294	2/12/14 DJF		LAT			MS4	Phone call w/design engineer re: SWM design
295	2/18/14 DJF		4732 Gettysburg Road		SLD 2014-02		Training: Pa. Housing Research Council conference, Land Development, Stormwater track.
296	2/20/14 DJF		LAT			MS4	Phone call w/design engineer re: SWM exemption for installation of new basketball court/imperious coverage
297	2/21/14 DJF		5120 Simpson Ferry Rd				Pipe capacity computations for maintenance work re: sink-hole repair
298	2/26/14 DJF		Deerfield Road				Pipe capacity computations for maintenance work re: sink-hole repair
299	2/27/14 DJF		4732 Gettysburg Road		SLD 2014-02		Phone call w/design engineer re: SWM design
300	2/27/14 DJF		4732 Gettysburg Road		SLD 2014-02		Phone call w/geotechnical engineer re: SWM design
301	2/27/14 DJF		Orchard Glen		SLD 2008-12		Review revised SWM design and plan.
301	3/10/14 DJF		LAT			MS4	Annual presentation at an advertised Public Meeting on the LAT MS4 Permit Program

Sheet1

	A	B	C	D	E	F	G
302	3/11/14	RJA	4915 Ritter Road				Pavement next to the inlet box at the entrance driveway is failing. Contractor notified.
303			Between Lisburn Rd and HBI Quarry berm, from Spangler Mill Rd to Shetter Lane				
304	3/12/14	JME		N/A	N/A		Observed mud, lack of winter ground cover, and unprotected storm drain inlets at UGI gas main installation by Miller Pipe-line Co. Reported to Vince McCollum of CCCD.
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**BMP #5: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new and redevelopment. Measures also should be included to encourage retrofitting LID into existing development. DEP's Pennsylvania Stormwater Best Management Practices Manual provides guidance on implementing LID practices.**

**Measurable Goal:** In your inventory of development and redevelopment projects authorized for construction since March 10, 2003, that discharge stormwater to your regulated MS4s, indicate which projects incorporated LID practices and for each project list and track the BMPs that were used.

**Measurable Goal:** Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Progress with enacting and updating your ordinances to enable the use of LID practices shall be summarized in the periodic reports.

1. Number of projects during the reporting period that incorporated LID: 8
2. Identify ordinances enacted or updated during the reporting period to ensure consistency with LID practices:

NO UPDATES TO REPORT.

**BMP 6: Ensure adequate operation and maintenance of all post-construction stormwater management BMPs installed at all qualifying development or redevelopment projects (including those owned or operated by the permittee).**

**Measurable Goal:** Within the first year of coverage under this permit, new permittees shall develop and implement a written inspection program to ensure that stormwater BMPs are properly operated and maintained. The program shall include sanctions and penalties for non-compliance. All permittees shall review and update the inspection program annually and shall continue to implement this BMP.

**Measurable Goal:** An inventory of PCSM BMPs shall be developed by permittees and shall be continually updated during the term of coverage under the permit as development projects are reviewed, approved, and constructed. This inventory shall include all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to your regulated small MS4s. The inventory also should include PCSM BMPs discharging to the regulated small MS4 system that may cause or contribute to violation of water quality standard. The inventory shall include:

- all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003;
  - the exact location of the PCSM BMP (e.g., street address);
  - information (e.g., name, address, phone number(s)) for BMP owner and entity responsible for BMP Operation and Maintenance (O&M), if different from BMP owner;
  - the type of BMP and the year it was installed;
  - maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources;
  - the actual inspection/maintenance activities for each BMP;
  - an assessment by the permittee if proper operation and maintenance occurred during the year and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements.
1. For new permittees only, attach the written inspection program to ensure that stormwater BMPs are properly operated and maintained.
  2. Date that inspection program is last reviewed or updated: 3-31-14
  3. Total number of sites with PCSM BMPs: 100
  4. Total number of sites inspected during this reporting period: 166
  5. Number of sites found to have PCSM BMP deficiencies: 23
  6. Number of enforcement actions taken during this reporting period: 8



### **MCM #6 - POLLUTION PREVENTION/GOOD HOUSEKEEPING**

**BMP #1:** Identify and document all facilities and activities that are owned or operated by the permittee and have the potential for generating stormwater runoff to the regulated small MS4. This includes activities conducted by contractors for the permittee. Activities may include the following: street sweeping; snow removal/deicing; inlet/outfall cleaning; lawn/grounds care; general storm sewer system inspections and maintenance/repairs; park and open space maintenance; municipal building maintenance; new construction and land disturbances; right-of-way maintenance; vehicle operation, fueling, washing and maintenance; and material transfer operations, including leaf/yard debris pickup and disposal procedures. Facilities can include streets; roads; highways; parking lots and other large paved surfaces; maintenance and storage yards; waste transfer stations; parks; fleet or maintenance shops; wastewater treatment plants; stormwater conveyances (open and closed pipe); riparian buffers; and stormwater storage or treatment units (e.g., basins, infiltration/filtering structures, constructed wetlands, etc.).

*Measurable Goal:* By the end of the first year of permit coverage, new permittees shall identify and document all types of municipal operations, facilities and activities and land uses that may contribute to stormwater runoff within areas of municipal operations that discharge to the regulated small MS4. Renewal permittees should have completed this list during the previous permit term. For all permittees, this information shall be reviewed and updated each year of permit coverage, as needed. Part of this effort shall include maintaining a basic inventory of various municipal operations and facilities.

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? ☒ Yes ☐ No
2. When was the inventory last reviewed 3/14
3. When was it last updated: 3/14
4. How many new facilities and/or activities were added to this inventory during this reporting period? 0

**BMP #2:** Develop, implement and maintain a written operation and maintenance (O&M) program for all municipal operations and facilities that could contribute to the discharge of pollutants from the regulated small MS4s, as identified under BMP #1. This program (or programs) shall address municipally owned stormwater collection or conveyance systems, but could include other areas (as identified under BMP #1). The O&M program(s) should stress pollution prevention and good housekeeping measures, contain site-specific information, and address the following areas:

- Management practices, policies, procedures, etc. shall be developed and implemented to reduce or prevent the discharge of pollutants to your regulated small MS4s. You should consider eliminating maintenance-area discharges from floor drains and other drains if they have the potential to discharge to storm sewers.
- Maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach your regulated small MS4s. You also should review your procedures for maintaining your stormwater BMPs.
- Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, and salt / sand (anti-skid) storage locations and snow disposal areas.
- Procedures for the proper disposal of waste removed from your regulated small MS4s and your municipal operations, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, and other debris.

*Measurable Goal:* During the first year of permit coverage, new permittees shall develop and implement a written O&M program that complies with BMPs #1 and #2. Renewal permittees shall continue to implement their existing program. All permittees shall review the O&M program annually, edit as necessary, and continue to implement during every year of permit coverage.

1. For new permittees only, attach the written O&M program to the first Annual Report.
2. Date of last review or update to O&M program: 3/14



Lower Allen Township  
Facilities List – Potential Stormwater Runoff

Municipal Separate Storm Sewer System (MS4)  
Township Municipal Service Center  
Former Township Office  
Fire Station No. 2  
Public Works Facility  
Yetter Court 5 acre parcel

Parks:

Lower Allen Community Park  
Vernon C. Wass Park  
Highland Park Playground  
Highland Estates Playground  
Allendale Park  
Peter's Field  
Beacon Hill Park  
Sheepford Crossing Park  
Yellow Breeches Park  
Beacon Hill Boulevard Land  
Former Radar Site  
Creekwood Park  
Cedar Spring Run Park  
Windsor Park triangle

**BMP #3:** Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from municipal operations to your regulated small MS4s. The program may be developed and implemented using guidance and training materials that are available from federal, state or local agencies, or other organizations. Any municipal employee or contractor shall receive training. This could include public works staff, building / zoning / code enforcement staff, engineering staff (on-site and contracted), administrative staff, elected officials, police and fire responders, volunteers, and contracted personnel. Training topics should include operation, inspection, maintenance and repair activities associated with any of the municipal operations / facilities identified under BMP #1. Training should cover all relevant parts of the permittee's overall stormwater management program that could affect municipal operations, such as illicit discharge detection and elimination, construction sites, and ordinance requirements.

**Measurable Goal:** During the first year of permit coverage, new permittees shall develop and implement a training program that identifies the training topics that will be covered, and what training methods and materials will be used. Renewal permittees shall continue to operate under their existing program. All permittees shall review the training program annually, edit it as necessary, and continue to implement it during every year of permit coverage.

**Measurable Goal:** Your employee training shall occur at least annually (i.e., during each permit coverage year) and shall be fully documented in writing and reported in your periodic reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).

1. For new permittees only, attach the written training program to the first Annual Report.
2. Date of last review or update to training program: 3/31/14
3. Identify the date(s) of employee training, the names of attendees, the topics covered, and the training presenters:

\_\_\_\_\_ Attached

#### OTHER REQUIRED REPORT ELEMENTS

Identify the progress towards achieving the statutory requirements of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP) and complying with water quality standards.

LOWER ALLEN TOWNSHIP HAS: FOLLOWED AND ENFORCED THE ACT 167 STORMWATER MANAGEMENT ORDINANCE REQUIREMENTS; CONTINUED TO COMPLETE THE REQUIREMENTS OF THE MS4 PERMIT; DEVELOPED AND SUBMITTED A CHESAPEAKE BAY POLLUTION REDUCTION PLAN.

Provide an assessment of the appropriateness of the BMPs implemented to date, and identify any steps that will be taken to address deficiencies in the BMPs or make changes to BMPs or other aspects of the SWMP developed by the permittee.

THE APPROPRIATENESS OF BMPs IS REVIEWED AND ASSESSED ON AN ANNUAL BASIS BY THOSE EMPLOYEES ENGAGED IN IMPLEMENTING THE MS4 PERMIT. DEFICIENCIES ARE NOTED AND IMPROVEMENTS MADE BASED ON THESE ASSESSMENTS.

Provide a summary of stormwater activities planned during the next reporting cycle:

DURING THE NEXT REPORTING CYCLE LOWER ALLEN TOWNSHIP WILL UNDERTAKE ALL REQUIRED ACTIVITIES IN THE MS4 PERMIT, AND ADD THE ACTIVITIES LISTED IN THE CHESAPEAKE BAY POLLUTION REDUCTION PLAN.

Provide a summary of notices, intergovernmental agreements and other relevant documents if the permittee is relying on another governmental entity to satisfy any of its permit obligations.

LOWER ALLEN TOWNSHIP HAS A MEMORANDUM OF UNDERSTANDING WITH THE CUMBERLAND COUNTY CONSERVATION DISTRICT (CCCD) WHEREBY CCCD PROVIDES SERVICES TO ASSIST WITH PERMIT OBLIGATIONS.

# *Certificate of Commendation*

is hereby awarded to

*Erin Genest*

NAME

*Lower Allen Township*

MUNICIPALITY

## MS4 REQUIREMENTS AND WHAT THEY MEAN TO YOUR MUNICIPALITY

Polluted stormwater runoff is commonly transported through Municipal Separate Storm Sewer Systems (MS4s), from which it is often discharged untreated into local waterbodies. To prevent harmful pollutants from being washed or dumped into a regulated MS4, operators must obtain a NPDES permit and develop a stormwater management program.

Based on a review of the 2010 United States Census Bureau Urbanized Area Maps, we believe your municipality may be impacted by the new Pennsylvania MS4 requirements

Two Hours of MS4 Training

*[Signature]*  
John Klinedinst, President/CEO



# The Practicing Institute of Engineering, Inc.

This is to certify that: **Raymond Allen**

has successfully completed the Retention-Detention and Water Quality Professional training in Best Management Practices (BMP's) is provided for the purpose of designing storm sewers, stormwater detention/retention systems and water quality systems. This training workshop program is offered by Advanced Drainage Systems, Inc. to instruct Licensed Professional Engineers, Landscape Architects and land development professionals in the proper design, specification and use of storm sewers, subsurface stormwater management systems and water quality systems. This course shall also include the newest regulations and specifications from the governing state of the presentation.

This certificate was issued the 13th day of November 2013

1 Professional Development Hours\*

**Steven P. Johnson**

Steven P. Johnson  
ADS Engineered Product Manager

**ADS**

\*To confirm the acceptance of the PDH, please consult with your state. ADS feels that this seminar maintains, improves or expands the skills and knowledge of a licensee's professional practice. In addition, the seminar held on this date included updates to current PENN DOT specs that cover 100 year pipe; AASHTO M330 specs that cover polypropylene pipe; recent acts passed by the Commonwealth of Pennsylvania that include the Stormwater Funding Act and the Municipal Stormwater Authority Act. The participants were also introduced to the latest sand filter methods of water quality manage. Additional time was spent learning the benefits of AASHTO LRFD testing of pipe and chamber products.



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# The Chesapeake Bay Stormwater Training Partnership

([www.chesapeakestormwater.net](http://www.chesapeakestormwater.net))

*Awards this certificate to*

## Ray Allen

*for successful completion of the*

### Designing the Next Generation of

### Stormwater Practices

*Consisting of 7 instructional hours*

*Cumberland County, PA May 17, 2013*



CENTER FOR  
**WATERSHED  
PROTECTION**

*Thomas R. Schueler*

Thomas R. Schueler  
Chesapeake Stormwater Network



*Greg Hoffmann*

Greg Hoffmann, P.E.  
Center for Watershed Protection



**ATTENDANCE**  
**NPDES PAG-3 Permit**  
**Preparedness, Prevention and Contingency (PPC) Plan Training**  
**February 7, 2014 12:45 PM**

Daniel J. Flint, P. E. - Presenter	
NAME (PRINT)	SIGNATURE
<del>John Starny</del>	<del>John Starny</del>
<del>Dennis Harker</del>	<del>Dennis Harker</del>
Rinda Hoekx Berry	Rinda Hoekx Berry
RAYMOND ALLEN	Ray Allen
Bob Naylor	Bob Naylor
Jim CHICAGO	Jim Chicago
Mark D'Agostin	Mark D'Agostin
TOM STAMBAUGH	Tom Stambaugh
Ken Rowsh	Ken Rowsh
Clayton Gervier	Clayton Gervier
CHARLIE REYNOLDS	Charlie Reynolds
Barry Zook	Barry Zook
SCOT EMERSON	Scot Emerson
Brian Harshbarger	Brian Harshbarger
MARSHALL QUARTS MURPHY	Marshall Quarts Murphy
Jordan PADERN	Jordan Paderne
Gary Frazer	Gary Frazer
Andrew F. Mione	Andrew F. Mione
Matthew W. Kipke	Mat Kipke

**LOWER ALLEN TOWNSHIP**  
**PUBLIC WORKS, FLEET MANAGEMENT and**  
**COMMUNITY DEVELOPMENT DEPARTMENTS**

**TRAINING PROGRAMS**

**NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**  
**NPDES PAG-3 Permit Preparedness, Prevention and Contingency (PPC) Plan Training**  
**February 7, 2014 12:45 PM**

**NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**

1. Background information on MS4 Program
  1. Six Minimum Control Measures
    1. Public Education and Outreach
    2. Public Participation/Involvement
    3. Illicit Discharge Detection and Elimination
    4. Construction Site Runoff Control
    5. Post-Construction Runoff Control
    6. **Pollution Prevention/Good Housekeeping**
2. Status of MS4 Permits
3. Center for Watershed Protection, Manual 9, Municipal Pollution Prevention/Good Housekeeping Practices
  1. Training Focus from previous years:
    1. 2011 MO-1: Hotspot Facility Management
    2. 2012 MO-3: Street Repair and Maintenance
    3. 2013 MO-4: Street Sweeping
  2. 2014 Training Focus: Municipal Operation Profile Sheet MO-5: Storm Drain Maintenance
    1. Identify existing municipal operations
    2. Collect information about each operation
    3. Complete the Municipal Operations Analysis (MOA)
    4. Focus Pollution Prevention/Good Housekeeping (PP/GH) Efforts
    5. Investigate Municipal Operations and Select PP/GH Practices
    6. Implement PP/GH Practices
    7. Evaluate Progress in Implementation

**NPDES PAG-3 Permit Preparedness, Prevention and Contingency (PPC) Plan Training**

**1. Spill Leak Prevention and Response**

1. Pre-Release Planning - Potential sources for accidental spills, leaks or leaching are described as follows:
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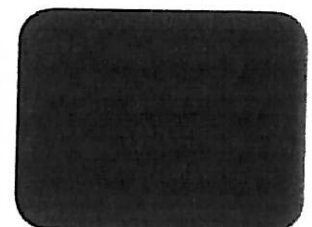
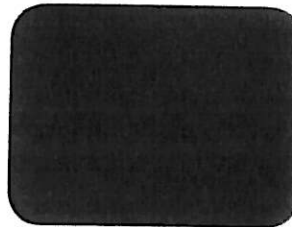
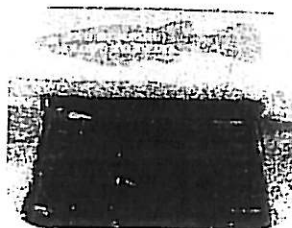
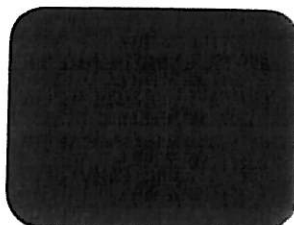
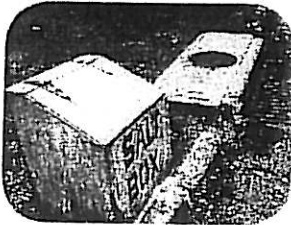
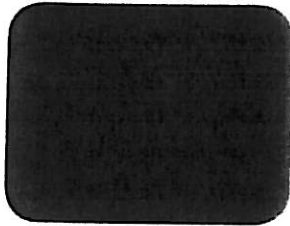
*Urban Subwatershed Restoration Manual Series*

9


# Municipal Pollution Prevention/ Good Housekeeping Practices

Version 1.0

September 2008



CENTER FOR  
**WATERSHED  
PROTECTION**  
Manual 9

MO-5	Municipal Operation	
	<b>STORM DRAIN MAINTENANCE</b>	

### Description

Public streets and roadways can comprise as much as 10 to 20% of total impervious cover in suburban subwatersheds and from 20 to 40% of highly urban subwatersheds. Fine particles and pollutants naturally tend to accumulate along the curbs of roads in between rainfall events. Sources of pollutants include run-on, atmospheric deposition, vehicle emissions, breakup of street surface, littering, and sanding. This results in the accumulation of stormwater pollutants such as sediment, nutrients, metals, hydrocarbons, bacteria, pesticides, trash and other toxic chemicals.

Storm drain maintenance is often the last opportunity to remove pollutants before they enter the storm drain system. The effectiveness of this pollution prevention/good housekeeping practice depends on the basic design of the stormwater conveyance in a subwatershed. Most systems have a catch basin or sump pit located in the storm drain inlet to trap sediment and organic matter and prevent clogging (Figure 1). In some cases, however, conveyance systems were designed to be self-cleansing and thus have no storage. Each catch basin or sump pit tends to be unique in how quickly it fills up, and whether the trapped material is liquid, solid or organic. To this extent, each reflects the conditions and behaviors that occur within the few hundred feet of street it serves.

Storm drain maintenance can be an effective strategy in urban subwatersheds that have few other feasible options to remove pollutants. For many communities, storm drain maintenance is reactive and conducted in response to complaints from residents. Water quality is not a commonly cited reason for a storm drain cleanout program (see Figure 2). When performed properly, regular maintenance can improve water quality and prevent clogging and flooding.

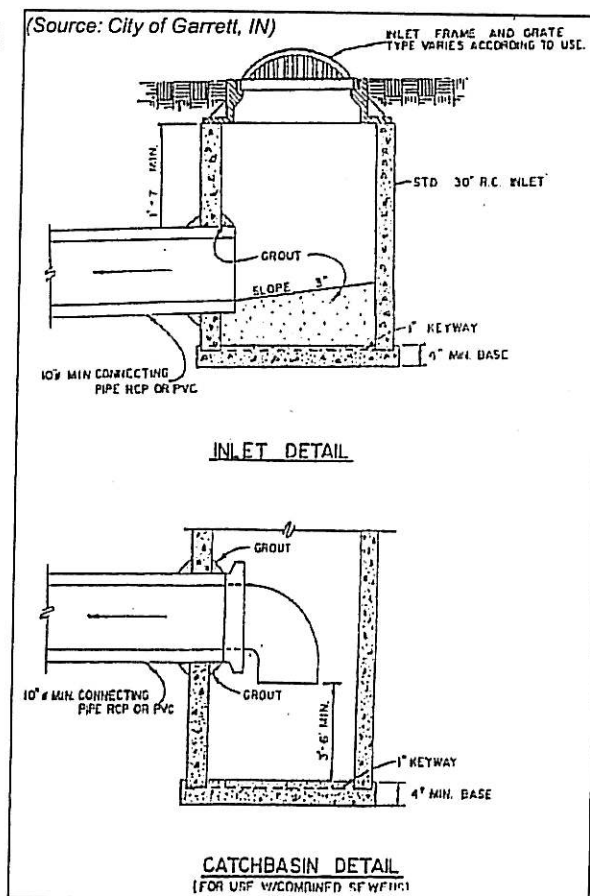
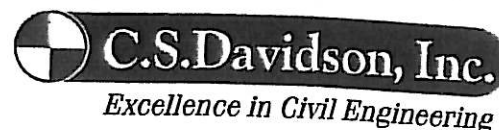


Figure 1. Catch Basin Detail

38 North Duke Street  
York, PA 17401  
(717) 846-4805  
FAX (717) 846-5811



.....  
[www.csdavidson.com](http://www.csdavidson.com)

York, PA • Gettysburg, PA • Lancaster, PA • Freehold, NJ

An Employee Owned Company

May 7, 2013

Erin Genest  
Lower Allen Township  
2233 Gettysburg Road  
Camp Hill, PA 17011

Dear Erin,

Thank you for attending the Community Meeting regarding MS4 Requirements and What They Mean to Your Municipality. We hope that you found the event to be very useful and pertinent to your municipality.

Within this mailing you will find a Certificate of Completion for MS4 Credits to include in your annual reporting efforts.

At C.S. Davidson, we know it is essential to foster collaboration for better solutions to improve our communities. We look forward to bringing you future educational events of value. We are interested in hearing what topics may be of interest to you.

If you have any questions or comments regarding MS4 requirements and how they relate to your municipality, please don't hesitate to contact us.

Sincerely,

C.S. DAVIDSON, INC.

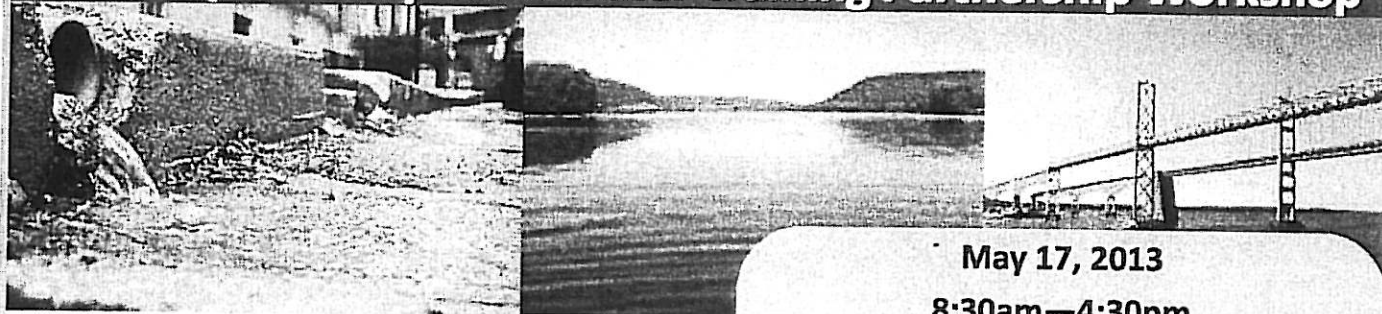
A handwritten signature in black ink, appearing to read 'J. Shue', is written over the printed name of Jeffrey S. Shue.

Jeffrey S. Shue, P.E.  
Senior Client Representative  
Director of Municipal Services



# Designing the Next Generation of Stormwater Practices

## A Chesapeake Bay Stormwater Training Partnership Workshop



### Workshop Agenda

- Introduction to Stormwater Management
- Update on Pennsylvania Stormwater Program and MS4 Permit Overview
- LID Practices
- Designing Better Basins
- Site Design Exercise & Report Out
- Stormwater Design Considerations for Karst
- Developing a Chesapeake Bay Pollutant Reduction Plan and Local TMDL Guidance

### The Chesapeake Stormwater Partnership:

A training program for stormwater management professionals created by the Chesapeake Stormwater Network and the Center for Watershed Protection. It is sponsored by the National Fish and Wildlife Foundation's Chesapeake Bay Stewardship Fund. The workshop will be presented by the Cumberland County Planning Department and the Alliance for the Chesapeake Bay through a grant provided by the National Fish and Wildlife Foundation.

**May 17, 2013**

**8:30am—4:30pm**

**Lower Allen Township Building**

**2233 Gettysburg Road**

**Camp Hill, PA 17011**

**Only \$10 to attend!**


**Light breakfast and lunch will be provided.**

### Instructors to Include:

Tom Schueler, Chesapeake Stormwater Network  
Cecilia Lane, Chesapeake Stormwater Network  
Andy Gavin, Susquehanna River Basin Commission  
Donna Morelli, Alliance for the Chesapeake Bay  
Kirk Stoner, Cumberland County  
Lee A. McDonnell, PA DEP  
Greg Hoffman, Center for Watershed Protection

### DEADLINE TO REGISTER IS MAY 10, 2013.

To register, contact Donna Morelli, Alliance for the Chesapeake Bay, [dmorelli@allianceforthebay.org](mailto:dmorelli@allianceforthebay.org). Payment can be made in advance or at the door. Checks can be mailed to: 3310 Market St., Suite A, Camp Hill, PA 17011. Registration limited to 50!

 Alliance for the  
Chesapeake Bay



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WATERSHED  
PROTECTION

If applicable, identify progress with implementation of the MS4 TMDL Plan, including a summary of implementation and monitoring data of all control measures and of all BMPs implemented in connection with the MS4 TMDL Plan.

## NEW BMPs

List all BMPs installed or implemented in the urbanized area during the reporting period that were not completed as part of a Chapter 102 NPDES permit (stormwater associated with construction activities). Provide a name for each BMP, the area, in square feet (sf) that drains to each BMP (drainage area (DA)), the location of the BMP (latitude and longitude), the name of the water body that receives discharges from the BMP (if applicable), and how often each BMP is or will be inspected or maintained (quarterly, annually, etc.).

[illegible]

**Lower Allen Township**  
**MS4 Pollution Prevention/Good Housekeeping for Municipal Operations Plan**

1. Review and update inventory of municipal operations and facilities each year.
  1. Develop a system, using GIS mapping and other tools to maintain and update an inventory of facilities.
2. Written Operations and Maintenance (O and M) Program.
  1. Maintain and O and M Plan for use by employees.
  2. Annually review and update the Plan as needed.
3. Annual employee training program.
  1. Conduct annual training for Highway, Parks, Fleet Management and Community Development Employees on the Program.
  2. Highlight a specific topic each year in the annual training session.

**Lower Allen Township  
Stormwater Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program  
March 10, 2013-March 15, 2014**

**Contact Name:** Gary Frazer, Public Works Coordinator

**Stormwater drainage inlets cleaned annually:**

Lower Allen Township: 642  
PennDot: 116  
Total: 758

**Debris Collected:**

Loads: 10  
Pounds per load: 4100  
Total pounds: 41,000  
Total tons: 20.5

Days to complete project: 15

**Street Sweeping:**

Loads:	<u>84</u>
Pounds Per Load	<u>8340</u>
Total Pounds:	<u>700,560</u>
Total Tonnage	<u>350.28</u>

Curb miles of street cleaned annually by street sweeping operations: 390

Loads of sweepings collected annually by street sweeping operations: 84

Loads of leaves removed from streets annually by leaf recycling operations: 364

**LOWER ALLEN TOWNSHIP**  
**PUBLIC WORKS, FLEET MANAGEMENT and**  
**COMMUNITY DEVELOPMENT DEPARTMENTS**

**TRAINING PROGRAMS**

**NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**  
**NPDES PAG-3 Permit Preparedness, Prevention and Contingency (PPC) Plan Training**  
**February 7, 2014 12:45 PM**

**NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**

1. Background information on MS4 Program
  1. Six Minimum Control Measures
    1. Public Education and Outreach
    2. Public Participation/Involvement
    3. Illicit Discharge Detection and Elimination
    4. Construction Site Runoff Control
    5. Post-Construction Runoff Control
    6. **Pollution Prevention/Good Housekeeping**
2. Status of MS4 Permits
3. Center for Watershed Protection, Manual 9, Municipal Pollution Prevention/Good Housekeeping Practices
  1. Training Focus from previous years:
    1. 2011 MO-1: Hotspot Facility Management
    2. 2012 MO-3: Street Repair and Maintenance
    3. 2013 MO-4: Street Sweeping
  2. 2014 Training Focus: Municipal Operation Profile Sheet MO-5: Storm Drain Maintenance
    1. Identify existing municipal operations
    2. Collect information about each operation
    3. Complete the Municipal Operations Analysis (MOA)
    4. Focus Pollution Prevention/Good Housekeeping (PP/GH) Efforts
    5. Investigate Municipal Operations and Select PP/GH Practices
    6. Implement PP/GH Practices
    7. Evaluate Progress in Implementation

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2. Communications and Alarm Systems
  1. Employees maintain contact through the use of mobile and portable two-way radios. Notification of an emergency can be made to all employees using these radios.
3. Evacuation Plan
  1. Emergency exit plans are posted throughout the maintenance building in accordance with the International Fire Code.
4. Emergency Equipment Available for Response
  1. Portable fire extinguishers are located throughout the maintenance building, in accordance with the International Fire Code.
  2. Additional response equipment is available from the Public Safety Department, upon notification that such services are required.

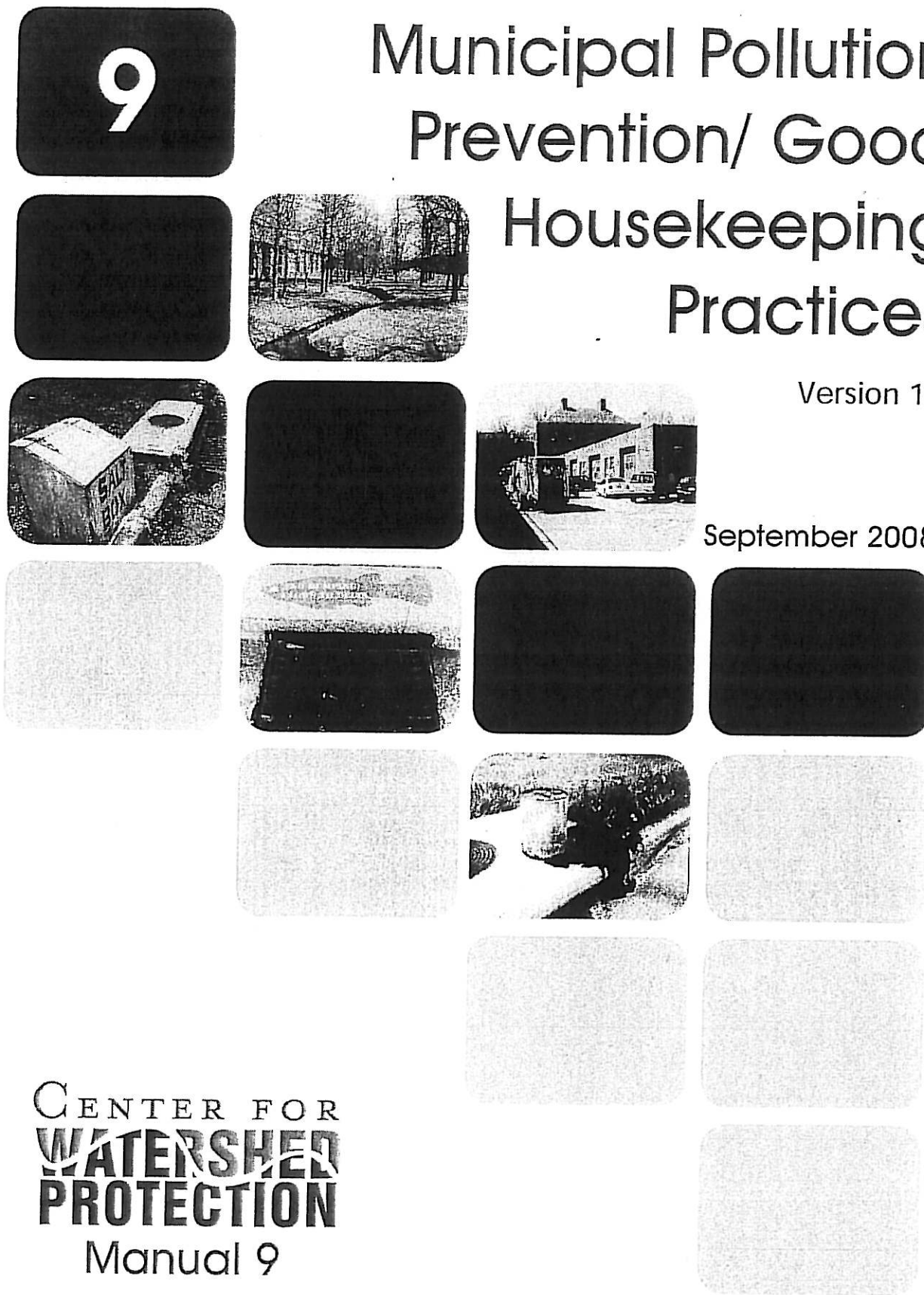
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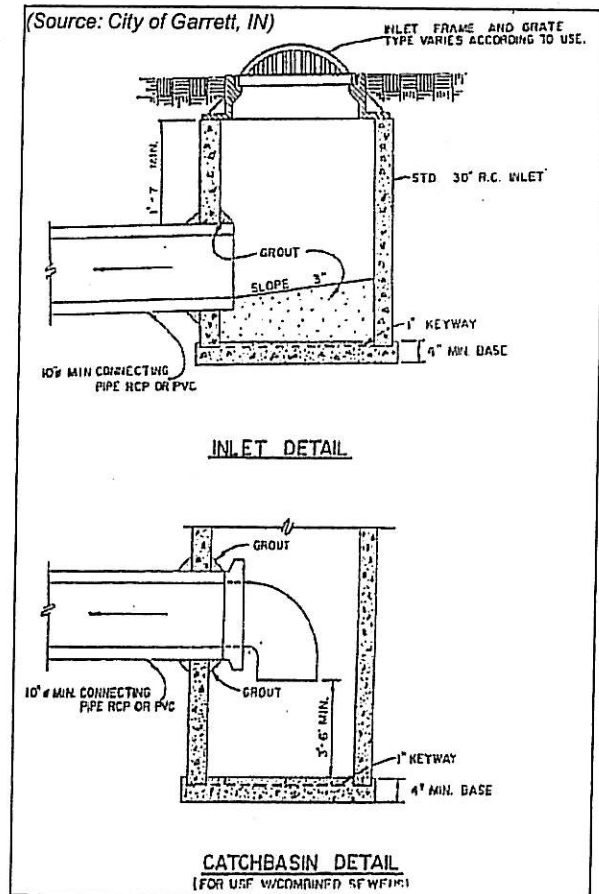
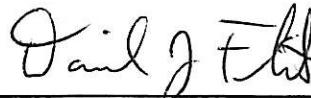


Figure 1. Catch Basin Detail

**CERTIFICATION**

I 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 gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Daniel J. Flint, P.E.



Name of Responsible Official

Signature

717-975-7575

6-25-14

Telephone No.

Date