



**BLAIR COUNTY**  
1731 N. JUNIATA STREET  
HOLLIDAYSBURG, PA 16648  
TEL: 814.696.6280  
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June 15, 2017

Mr. Scott M. Arwood, P.E.  
Clean Water Program  
DEP Southcentral Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

RE: NPDES Phase II MS4 Permit Annual Report  
Antis Township, Blair County  
Project No. 90-0018.335

Dear Scott:

On behalf of Antis Township Supervisors, we are hereby submitting the NPDES MS4 Annual Report for permit year ending March 9, 2017. We trust that this submission is complete and satisfactory for your review and comment. If you have any questions, please contact our office.

Sincerely,

Brian D. Shura, P.E.

BDS/cds

Enclosures

cc: Lucas Martsof - Antis Township, Rick Barrett - PA DEP, file

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# **2016-2017 MS4 Annual Report**

**Commonwealth of Pennsylvania**

*Prepared for:*

**Antis Township Supervisors  
909 North Second Street  
Bellwood, PA 16617**

*Prepared by:*



**June 2017**

**Project Number 90-0018.335**



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

For the Reporting Period: 03/10/2016 to 03/09/2017

☒ Annual Report    ☐ Progress Report  
☐ New Permittee    ☐ Renewal Permittee

Due Date: 06/09/2017

GENERAL INFORMATION					
Permittee Name:	Antis Township Supervisors	NPDES Permit No.:	PAG133609		
Mailing Address:	909 North Second Street	Effective Date:	03/30/2003		
City, State, Zip:	Bellwood, PA 16617	Expiration Date:			
MS4 Contact Person:	Lucas Marsolf	Renewal Due Date:	09/2017		
Title:	Antis Township Manager	Admin. Extended?	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone:	814-742-7361	Municipality:	Antis Township		
Email:	antismanager@atlanticbbn.net	County:	Blair		
Co-Permittees (if applicable): N/A					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?
Sandy Run	CWF, MF	NO	N/A	YES	YES
Little Juniata River	TSF, MF	YES	Organic Enrichment/DO	YES	YES
Bells Gap Run	TSF, MF	NO	N/A	NO	N/A
Riggles Gap Run	CWF, MF	NO	N/A	YES	YES
Sugar Run	WWF, MF	NO	N/A	NO	N/A
Identify any Wasteload Allocations (WLAs) identified in TMDLs for the MS4, if applicable. Identify the pollutant(s) and mass load(s):					
Sandy Run (Little Juniata TMDL) MS4 WLA = 2,036 tons sed./yr, MS4 LA = 6,577 tons sed./yr					
Little Juniata River MS4 WLA = 2,036 tons sed./yr, MS4 LA = 6,577 tons sed./yr					
Riggles Gap Run (Little Juniata TMDL) MS4 WLA = 2,036 tons sed./yr, MS4 LA = 6,577 tons sed./yr					

### 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	Lucas Martsolf	814-742-7361
#2 Public Involvement/Participation	Lucas Martsolf	814-742-7361
#3 Illicit Discharge Detection and Elimination (IDD&E)	Lucas Martsolf	814-742-7361
#4 Construction Site Storm Water Runoff Control	Blair County Conservation District	814-696-0877
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Lucas Martsolf	814-742-7361
#6 Pollution Prevention / Good Housekeeping	Lucas Martsolf	814-742-7361

### 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.

1. For new permittees only, attach the written PEOP or a summary thereof to the first report submitted to DEP.

2. If you are not a new permittee, did you complete and submit your written PEOP to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **06/2015**

3. Date of last evaluation of or revision to the PEOP: **03/01/17**

4. What were the plans and goals for public education and outreach for the reporting period?

The plans and goals for this reporting period included implementation of the existing goals and BMPs outlined within the revised PEOP Program with an increased focus and effort into utilizing local news media and public meetings to educate Township residents and surrounding communities.

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

Explain the rationale for your answer:

The Township worked with local news media such as the Altoona Mirror to publish MS4 stormwater specific information to the public. Multiple articles ran in both newspapers throughout the reporting period. The Township continued to work closely with the Blair County Conservation District and Intergovernmental Stormwater Committee (formerly Blair County MS4 Workgroup) in all aspects of requirements outlined in the MS4 permit, including the public education and outreach MCM.

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

Specific plans and goals for the upcoming year include continued participation in the Intergovernmental Stormwater Committee and activities, partnership with the Blair County Conservation District, and Blair County Planning Commission. The Township plans to incorporate volunteer work in any stormwater construction projects during the year.

#### 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.

1. For new permittees only, attach your target audience list(s) to the first report submitted to DEP.
2. If you are not a new permittee, did you complete and submit your target audience list to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2017 – included**
3. Date of last review or revision to target audience list(s): **2017 – Contractor, Developer, and Consultant List provided.**

**BMP #3: Annually publish at least one educational item 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 submitted to DEP.
2. If you are not a new permittee, did you complete and submit your published stormwater educational or informational materials to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2015**
3. Do you have a municipal newsletter? ☒ Yes ☐ No  
If Yes, how often was it published during the reporting period and what MS4-related material did it contain?  
**The Township publishes a monthly e-newsletter. Typical MS4 material included in the e-newsletter includes brush and yard waste pickup schedules (in conjunction w/ Inter-municipal Relations Committee), IRC news (recycling, composting, etc.), street sweeping schedules, Earth Day celebration announcements (in conj. w/ Blair County Conservation District), Township Meeting schedules, water conservation tips, permitting information, fall leaf pickup schedules, water and sewer tips, MS4 related updates, eco-tips, etc.**
4. Do you have a municipal website? ☒ Yes ☐ No (URL: [antistownship.org](http://antistownship.org) & [cleanblairwater.org](http://cleanblairwater.org))  
If Yes, what MS4-related material does it contain?  
**The Township website includes a page dedicated to the Stormwater Management Program. The Stormwater page includes General permit and background information, tips on preventing stormwater pollution; a section on illicit discharges, including a contact number for incident reporting, current activities and related reports, ordinances, MS4 related links (PA DEP, EPA, Blair County Conservation District, brochures, MS4 reports, etc.)**

5. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:

Public outreach activities are also being conducted in partnership with a formed "Intergovernmental Stormwater Committee" including the Blair County Planning Commission, Blair County Conservation District, and other Blair County MS4 municipalities. The Township partners with the Blair County Conservation District via Memorandum of Understanding (MOU) which includes activities conducted by the District that address the BMPs under this MCM. Activities conducted within the year include a billboard advertisement and regularly scheduled public meetings.

**\*\*REPORT FROM THE BLAIR COUNTY CONSERVATION DISTRICT\*\***

The Staff of the Blair County Conservation District continue to distribute information electronically to over 50 developers and consultants on matters related to Erosion and Sediment Pollution Control and all aspects of the E&S/NPDES permitting to include post-construction stormwater, as pertinent.

District Staff maintains the Blair County Conservation District webpage to include topics specific to MS4 education and requirements. The website may be found at [www.blairconservationdistrict.org](http://www.blairconservationdistrict.org). In addition, the district published an Annual Report (copy attached), also available on the website and distributed electronically, outlining the highlights of 2016. Many of the items below were highlighted in that report, to include a short description of the NFWF Grant that we are administering with and through the MS4 Workgroup.

April 2016 was the eleventh annual "Earth Day/Water Festival at the Mall" by the Conservation District and many of its partners. The 2016 event was again held in Logan Valley Mall with co-sponsorship by the Altoona Water Authority and coordination by the Intermunicipal Relations Committee. Water quality and water quantity events and displays were held for students and adults (estimated at 200 children and 150 adult contacts) during the day-long event. In addition, "Do Your Part, Be Water Smart" was the theme for the Poster Contest. Art work by participants (just under 200) was displayed for the week preceding the event at the mall location.

Again for 2016 was participation in the Annual Sheetz Earth/Environment Day (June 3) Event hosted at the Sheetz Distribution Center. Nearly 550 adults participated in the day-long event where the district exhibited information on the Conservation Park proposed within the Borough of Hollidaysburg, to include Green Infrastructure and Innovative Stormwater Techniques. Of particular interest was the description of the Sheetz Corporation mitigated wetland at the District's site. Approximately 400 tree seedlings were distributed for planting across the county.

Standardized "School Water Festival" programs were held during the 2016-2017 school year. 678 Blair County 4<sup>th</sup> graders in 8 different schools (2 – Altoona; 1 Bellwood-Antis; 4 – Hollidaysburg; 1 – Tyrone School) were educated with emphasis on Water Quality, Quantity and Land Use as related to the Pennsylvania State Standards for Academics. The district continued with a 5<sup>th</sup> and 6<sup>th</sup> Grade program to involve students in an outdoor adventure related to Wildlife, Woods and Wetlands. Just over 530 students and teachers participated from 8 schools (5 – Altoona; 2 – Hollidaysburg; 1 – Tyrone) were taken for a daylong adventure at a local industrial manufacturing company's natural area and taught about Woodland, Meadow and Wetland habitat and hydrology; watershed impacts by humans; the differences and values of wetlands.

We continued a successful program that was developed to promote the idea of Riparian Forest Buffers and their benefits to environmental health and expanded the planting opportunities for Student Involvement in establishing Green Stormwater Practices. The District was also involved in promoting the School Riparian Buffer Program nationally. District staff presented in a Webinar hosted by the National Association of Conservation District in June of 2016 explaining our process to date with 83 districts and agencies across the country participating in the hour-long event. A municipal staff workshop attended by 22 individuals was presented to discuss effective establishment and maintenance of Riparian Buffers in April of 2016.

The district continues to utilize the DVD entitled Trees Beside the Water – a 15 minute introduction to stream hydrology and the importance of buffers to stream stability and health. The DVD is now posted for individual viewing 24/7 on the District Website.

The district continued to promote homeowner stormwater alternatives through rain barrel, rain garden and healthy lawn workshops as requested. Three such workshops were held in 2016-17 specific to rain gardens and water quality.

The district continues to support the website in cooperation with the MS4 Workgroup specific to Blair County Stormwater. Found at [www.cleanblairwater.org](http://www.cleanblairwater.org) the site highlights municipal and audience specific information related to Stormwater, Water Quality, Pollution Reporting and Opportunities for involvement. A "stormwater project" subpage is being developed so that individuals will be able to locate and visit constructed stormwater BMP sites both digitally and "in person"!

As mentioned above, the District continued our school involvement with the planting of construction projects related Green Infrastructure through a NFWF Grant. Students from the Bellwood Antis MS and HS (116 students) established a Rain Garden and Bioswale at the BA Municipal Park. Bishop Guilfoyle students completed an infiltration trench and Rain Garden at their High School in Altoona and finally students from Grier School planted a Rain Garden at the Tyrone VFW. The planting day follows a series of in classroom exercises related to Stormwater and Water Quality. In addition, approximately 15 students from the Altoona Area High School were recruited to participate in a planting project at the Blair County 911 Center as part of a County Grant from the Green Streets, Green Jobs, Green Town Program. Students were instructed on green infrastructure and planted two parking lot islands.

Education related to NPDES permitting and the MS4 Program was emphasized by two events hosted or with presentations by the Blair County Conservation District. The first was a presentation at the Blair County Township Officials Spring Convention held in April and the second was a Chapter 102/NPDES Permitting for the Development Community workshop presented by DEP staff to 65 engineers and agencies in November of 2016.

Finally, public outreach and education is at the forefront as the District continues to develop our 15 acres of property within the Borough of Hollidaysburg. The Master Plan includes the use of alternative stormwater BMP's and will include an extensive educational component.

#### **Water Quality Monitoring:**

Finally, the district continues to utilize 16 dedicated volunteers and partnering with the Altoona Water Authority and municipalities to conduct monthly water sampling of 32 sites on 21 Blair County streams. They also performed spring and fall macroinvertebrate assessments and quarterly flow data. Specific to MS4 area, the district and partners are collecting data related to baseline water quality on 10 sites within the MS4 area. By locating the sites above and below the MS4 identified area it is hoped that we may begin to monitor increases in water quality as MS4 Municipalities implement BMP's. Two additional permanent and continuing monitoring stations were implemented in 2016 for a total of four locations specific to the MS4 area as part of the district NFWF grant and they are operational.

6. Date of most recent review and/or update to published stormwater educational materials: **2015**
7. Identify specific plans for the publication of stormwater materials for the upcoming year:

**Plans for the upcoming year include continued participation with the Township partnerships listed above, developing new materials for inclusions with permits and code enforcement handouts, billboard ads, continued media coverage through local newspapers and websites, etc.**

**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 BMP #3.

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).

**Additional methods listed under MCM#1, BMP#3, No. 5.** The Township is also participating in a MS-4 Public Outreach Focus Group consisting of several members of the Intergovernmental Stormwater Committee. This Focus Group focuses on public outreach through the use of media advertisement (i.e. newspaper articles, locally televised news pieces, etc.) to encourage the public and community to be engaged in Stormwater Prevention and raise awareness regarding SWMPs and the MS4 program.

## 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 your written PIPP or a summary thereof to the first report submitted to DEP.
2. If you are not a new permittee, did you complete and submit your written PIPP or summary to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2015**

3. Date of last review and/or update to the PIPP: **2016**

4. Explain how your PIPP addresses items a, b and c of the Measurable Goal:

Open meetings held at The Township always encourage public input in the decision-making process(es) of land development activities related to stormwater management. Other opportunities are outlined as part of the partnership with the BCCD as described in the MOU referred to in MCM #1. Open and routine communication to watershed groups and environmental advisory committees and organizations operating in proximity to the Permittees regulated MS4s or receiving waters happens on a continued basis and includes, but is not limited to the Center for Watershed Protection, Environmental Finance Center (UMD), American Rivers, Little Juniata Watershed Association, PA Rural Water Association Altoona Water Authority, Alliance for the Chesapeake Bay, etc. Finally, the BCCD continues to utilize 16 dedicated volunteers and partnering with the Altoona Water Authority and municipalities to conduct monthly water sampling of 32 sites on 21 Blair County streams. They also performed spring and fall macro invertebrate assessments and quarterly flow data. Specific to MS4 area, the district and partners are collecting data related to baseline water quality on 10 sites within the MS4 area. By locating the sites above and below the MS4 identified area it is hoped that we may begin to monitor increases in water quality as MS4 Municipalities implement BMP's. Permanent and real-time monitoring stations were implemented in 2015 on two locations specific to the MS4 area as part of the district NFWF grant and they are operational. Two additional stations were installed in 2016.

A revised version of the current PIPP program is in the works for the upcoming year.

### BMP #2: Prior to adoption of any ordinance (municipal permittees) or SOP (non-municipal permittees) required by the 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.

1. Was an MS4-related ordinance or SOP developed during the reporting period? ☐ Yes ☒ No
2. If Yes, describe how you advertised the draft ordinance and how you provided opportunities for public review, input and feedback:
3. 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

**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(s): **The Board of Supervisors meets on the first Thursday of each month at 7:00 PM, The Planning Commission meets monthly on the third Thursday at 7:00 PM and Public involvement is always encouraged. A capital improvements meeting is also held on the third Thursday of each month at 5:00 PM. A public hearing regarding updates with the MS4 permit and programs was presented at the March 3<sup>rd</sup>, 2016 meeting.**

2. How were meeting(s) advertised to the public? **Website, Newsletter, Public bulletins**

3. Indicate where the meeting(s) were held and the number of attendees:  
**The meetings are held at the Township Building, 909 North Second Street, Bellwood, PA**

4. What types of MS4-related activities did you solicit public involvement and participation for?  
**The Township, via the MOU with the BCCD and several local organizations, solicited public involvement for activities such as the Public Water Festival, various educational workshops, volunteer river clean-ups such as the Little Juniata River Association annual clean-up, etc. (see BCCD report provided with MCM#1, page 5)**

5. What MS4-related activities did the public participate in?  
**Activities held by the BCCD, such as the Public Water Festival, the various workshops, river clean ups, etc. A summary of the permit year's activities was presented at the public hearing 03-03-16 at the Twp. Supervisors Meeting.**

### **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. If you are not a new permittee, did you complete and submit your written IDD&E program to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2016**
3. Date of last review and/or update to IDD&E program: **2016**

**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): **2016/2017**

4. Total number of discharge points in your storm sewer system that:

Discharge directly to surface waters (outfalls): **13\***

Discharge to storm sewers owned by others: **38\***

5. Total number of outfalls that are mapped at this time: **51\***

\*Some outfalls listed are owned by others and/or are located outside the current urbanized boundary (e.g. PennDOT).

**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. If Yes, is the map(s) on the same map(s) 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. If you are not a new permittee, did you complete and submit your map to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2017 – NOI application**

5. Date of last update or revision to map: **2017**

**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.**

*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 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

If Yes for #1, indicate the number screened and the percent of all outfalls it represents. If No for #1, indicate reason(s) why this was not completed:

Are you on pace to screen all outfalls twice during the permit term? ☐ Yes ☐ No

2. For renewal permittees, indicate the percent of outfalls screened during the reporting period: **67% (12 of 18)**



Are you on pace to screen all outfalls once during the permit term? ☒ Yes ☐ No 100% of outfalls were screened at least once during the permit cycle. Multiple locations were screened annually to document natural groundwater infiltration.

3. For all permittees, indicate the percent of outfalls screened that revealed dry weather flows: 11% (2 of 18 urbanized outfalls), 6% (2 of 34 outfalls screened).

4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? ☐ Yes ☒ No

5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.

6. Do you use the "Outfall Reconnaissance Inventory / Sample Collection Field Sheet" provided in the permit?

☒ Yes ☐ No

If No, attach a copy of your monitoring form.

**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: 4-2011

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.

3. If you are not a new permittee, did you complete and submit your ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non-stormwater discharges to DEP? Yes ☒ No

4. Were there any violations of the ordinance during the reporting period? ☐ Yes ☒ No

If Yes, describe what enforcement actions were taken for each violation:

N/A

**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 IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? ☒ Yes ☐ No

If Yes, what was distributed? The Township participates in the Intergovernmental Stormwater Committee and via the MOU with the Blair County Conservation District to carry out activities and distribution information relevant to the IDDE Plan. Examples of distributions include billboard advertisements, Blair County Annual Household Hazardous Waste drop-off, brochure distribution, Antis Township Webpage, etc. County-wide Highway and Maintenance Crew Training was held in February at the Logan Township Building.

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?

☒ Yes ☐ No

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. If you are not a new permittee, did you complete and submit your written stormwater associated with construction activities program to DEP? ☐ Yes ☐ No

If Yes, provide the latest submission date:

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

**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).

**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.

2. If you are not a new permittee, did you complete and submit your ordinance (or SOP) and letter from an official, engineer or solicitor that addresses stormwater associated with construction activities to DEP? ☐ Yes ☐ No

If Yes, provide the latest submission date:

**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:
2. During the reporting period what has been the results of implementing the mechanism(s) described above?

**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.

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

#### **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. If you are not a new permittee, did you complete and submit your written procedure for post-construction management to DEP? ☐ Yes ☐ No

If Yes, provide the latest submission date:

3. Date of last review or update of post-construction management procedure:

**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.

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

**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 (or SOP) to address post-construction stormwater runoff from new and redevelopment projects and does it include sanctions? ☒ Yes ☐ No  
If Yes, indicate the date of the ordinance or SOP: **4-2011**  
For new permittees only, attach a copy of the ordinance or SOP.
2. If you are not a new permittee, has the ordinance (or SOP) been submitted to DEP with a letter from an official, engineer or solicitor that certifies the enactment of an ordinance or SOP for PCSM activities? ☐ Yes ☒ No
3. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? ☒ Yes ☐ No

**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. Identify ordinances enacted or updated during the reporting period to ensure consistency with LID practices:

None

**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. If you are not a new permittee, did you complete and submit your written inspection program to ensure that stormwater BMPs are properly operated and maintained to DEP? ☐ Yes ☒ No (**Inspection program shall be included with the 2017 NOI submission**)

If Yes, provide the latest submission date:

3. How do you ensure that stormwater BMPs are properly operated and maintained? Explain if you rely on means other than municipal inspections to ensure adequate O&M (consistent with your stormwater ordinance).

**Annual inspections are performed on BMP's installed after March 2003.**

4. Date that inspection program was last reviewed or updated: **2015**

5. Total number of sites with PCSM BMPs installed as of the date of this report: **15**

6. Total number of sites inspected during this reporting period:

7. Number of sites found to have PCSM BMP deficiencies:

8. Number of enforcement actions taken during this reporting period: **0 - Antis Township works with the owners to remedy the deficiencies.**

## 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? **May 2017**
3. When was it last updated? **March 2017**
4. How many new facilities and/or activities were added to this inventory during this reporting period? **14 Activities/Facilities** were inventoried in the 2016 O&M Program. The Township anticipates added new activities for the 2017 NOI submission to included BMPs associated with the Bellwood Antis Public Park.

**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. If you are not a new permittee, did you complete and submit your written O&M program to DEP? ☒ Yes ☐ No

If Yes, provide the latest submission date: **2012 – Current O&M will be submitted with the 2017 NOI application and is available upon request.**

3. Date of last review or update to O&M program: **March 2016: an updated and revised O&M program was implemented at the Township. The Township has also completed a self-audit/inspection of their facilities to ensure any deficiencies are addressed. The Township also continues to monitor and revise the newly implemented O&M program as needed. The Township also implemented New Pig recommendation and products suggested during thier self-inspection relating to spill response and secondary containment materials.**

**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. If you are not a new permittee, did you complete and submit your written training program to DEP? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **2015**

3. Date of last review or update to training program: **2015**

4. Identify the date(s) of employee training, the names of attendees, the topics covered, and the training presenters:

**Highway and Maintenance Crew Training (Mandatory for Blair County MS4 Communities)**

**-Date: Wednesday, February 22, 2017**

**-Topics Covered: Handling Spills/Spill Prevention/Good housekeeping**

**-Presenters: New Pig representatives**

**Attendance: Lucas Martsolf, Steve Shiffler, Donald Carnell, Art Walters, James Widdman, Joseph Despoys, John Mellot**

**See MCM #6 Appendix -Attachments.**

### BEST MANAGEMENT PRACTICES (BMPs)

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.

**BMPs implemented to date consist of dry and underground detention basins, infiltration trenches and bio retention ponds associated with residential and commercial development. Antis Township plans to begin implementing BMPs recommended in the Blair County MS4 TMDL and Chesapeake Bay Pollutant Reduction Plan.**

MS4 TMDL Plan	Chesapeake Bay Pollutant Reduction Plan (CBPRP)
Is the permittee required to develop an MS4 TMDL Plan? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the permittee required to develop a CBPRP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What is the status of the TMDL Design Details (if applicable)? <input type="checkbox"/> Under Development (Due Date:       ) <input checked="" type="checkbox"/> Submitted to DEP (Submission Date: <b>2014</b> ) <input type="checkbox"/> Approved by DEP (Approval Date:       )	What is the status of the CBPRP (if applicable)? <input type="checkbox"/> Under Development (Due Date:       ) <input checked="" type="checkbox"/> Submitted to DEP (Submission Date: <b>2014</b> ) <input type="checkbox"/> Approved by DEP (Approval Date:       )

For permittees with DEP-approved MS4 TMDL Plans and/or CBPRPs, describe progress with implementing BMPs and other activities identified in those plans:

**N/A**

For permittees with DEP-approved MS4 TMDL Plans and/or CBPRPs, complete the section below. Identify the required pollutant reductions (for those with MS4 TMDL Plans) or pollutant reductions committed to by the permittee (for those with CBPRPs) and the cumulative reductions achieved through implementing the BMPs, as of the end of the reporting period:

**N/A**

[illegible]

## 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.

**Antis Township's Stormwater Management Program** which includes the six MCM's, expects to result in reduction of pollutants discharged into receiving waters. The Township is participating in the Blair County Total Maximum Daily Load and Chesapeake Bay Pollution Reduction Plan which includes a schedule of BMPs that the Township can implement in partnership with other county municipalities.

The project proposed at the Bellwood-Antis Community Park to install a bio swale and rain garden was completed during September 2016. The project was funded by the NFWF grant being administered through the Blair County Conservation District and required the Township to provide equipment and labor for construction. The project will serve in providing direct water quality benefit for stormwater as well as educate the public on the importance of stormwater quality.

During the previous permit year, The Environmental Finance Center (EFC) from the University of Maryland prepared recommendations for the Blair County MS4 Work Group. One recommendation was to formalize an inter-municipal governing body which was later given the formal name, "INTERGOVERNMENTAL STORMWATER COMMITTEE (ISC)" and includes Antis Township and neighboring municipalities participating in the Blair County MS4 Work Group. The EFC also provided a path for financing the activities necessary to meet the TMDL's, including hiring a "MS4 manager" position at the BCCD to assist all participating municipalities in maintaining compliance with the permit terms and implementation of projects listed in the TMDL Plan. During the current permit cycle, the ISC was adopted and formalized and the MS4 Stormwater Coordinator position was advertised by the Conservation District. The Conservation District received six responses for the position, however, none of the applicants met the requirements. The MS4 Stormwater Coordinator position remains vacant at this time and the ISC will continue searching for qualified candidates.

Provide a summary of stormwater activities planned during the next reporting cycle (not identified previously in this report):

During the 2017-2018 reporting period, the Township will continue the process of revising and updating the Stormwater Programs as needed, particularly the newly completed O&M Program. The Township plans on finalizing the continue participating with the ISC and begin working with the County MS4 Manager as soon as hired. All public improvement projects conducted by the Township will consider the possibilities for improving the quality of stormwater runoff (green infrastructure BMPs, stream restoration, for example). The Township will be submitting the 2018 permit NOI in September 2017, which will include a PRP/TMDL countywide plan, revised stormwater plans, ordinances, mapping, as well as all other permit requirements.

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

The Township relies on PA's statewide program for stormwater associated with construction activities to satisfy MCM #4 - Construction Site Storm Water Runoff Control.

The Township relies on PA's statewide program for stormwater associated with construction activities to satisfy BMP #'s 1 - 3 for MCM #5 - Post-Construction Storm Water Management in New Development and Redevelopment.

The Township will continue its partnership with the Blair County Conservation District (MOU) and participation with the Blair County MS4 Workgroup to collectively address the areas stormwater needs.

The Township is also participating in the Blair County Total Maximum Daily Load and Chesapeake Bay Pollution Reduction Plan.

The Township participates in the Inter-municipal Relations Committee for Recycling which is a council of governments (COG) consisting of the City of Altoona, Logan Township, Tyrone Borough and Hollidaysburg Borough. The IRC addresses the needs of the member municipalities related to recycling and composting required by Pennsylvania Act 101 of 1988.

On June 2, 2016, the Township adopted ordinance 1-2016 approving the creation of the Intergovernmental Stormwater Committee. Antis Township will join ten (10) other Blair County governments creating a Council of Governments to help each other handle increasingly strict environmental regulations on stormwater.

### 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).

Lucas Martsof, Township Manager

Name of Responsible Official

(814) 742-7361

Telephone No.

  
Signature

6-14-2017  
Date

## **MCM #1 APPENDIX**

- 1. MCM #1 Plan - submitted with 2015-2016 Annual Report**
- 2. MCM #1 Attachments**
  - a. Town Crier Newsletter(s)**
  - b. Blair County Conservation District Report**
    - i. MS4 Narrative**
    - ii. Contractor Contact List**
    - iii. Developer Contact List**
    - iv. Consultant Contact List**
  - c. Billboard Advertisement**
  - d. Newspaper Articles**
    - i. Altoona Mirror**
      - 06/07/16: New gov't agency about to be born**
      - 05/20/16: Antis gets grant for rain garden**
      - 06/26/16: Logan joins MS4 group**
      - 08/14/16: City of Altoona joins MS4 council of governments**
      - 09/26/16: Pacifico records no vote to stormwater ordinance**
      - 01/28/17: Council overseeing stormwater rules delays hiring coordinator**
      - 02/23/17: PennDOT works on stormwater**
      - 03/05/17: Stormwater consultants visit area**

The Bellwood-Antis Community Trust  
P.O. Box 336  
Bellwood, PA 16617

NON-PROFIT ORG  
U.S. POSTAGE  
PAID  
Permit #570  
Allentown PA

The Bellwood-Antis Community Trust  
*Working together to build a community!*



**Well, God cares  
and we do, too!**

At Hillside you'll discover . . .

- Friendly people who care for others
- Relaxed atmosphere where you can come as you are
- Relevant messages which can improve your life
- Quality children's programs which kids love

**Vacation Bible School - June 4-8 - 6-8pm**

For kids 3 years old and up

**Hillside Community Church**

508 S. Cambria Street in Bellwood

742-8881 • [www.hillsidecommunitychurch.com](http://www.hillsidecommunitychurch.com)

**Sunday Worship  
Services**

**8:45 and 10am**

Nursery and Children's  
Classes available

# Bellwood-Antis News

FORWARD

A Community Newsletter Published by the Bellwood-Antis Community Trust

## Bellwood-Antis Public Library Annual Fund Drive

The Bellwood-Antis Public Library has been helping make our community a better place to work and live since 1965. Please make a donation to support all of the library programs available in our community. All donations are deductible from state and federal income taxes. Remember: a number of area employers will match their employee's contribution to our library; Norfolk Southern, IBM, Merck Pharmaceuticals, GlaxoSmithKline, Prudential Insurance, General Electric, Verizon & Exxon.

Deliver or mail donations to the Bellwood-Antis Public Library, 526 Main Street, Bellwood, PA 16617.

## Bellwood-Antis Public Library Summer Reading Game

Readers of all ages will accelerate their reading when the Bellwood-Antis Public Library presents "Build a Better World" during their summer library program. This year's summer reading game runs from Monday, June 5 through July 20. Children at the Bellwood-Antis Public Library will make use of the universal appeal of creating, repurposing and building. Through books, games and many STEAM (science, technology, engineering, art & math) activities, kids will discover new ways to look at the world around them. They will have their imaginations tweaked with games, story times, crafts, fun contests and most importantly reading the many books available to them. Research has shown that children who spend part of their summer reading are likely to maintain their reading skills when they return to school in the fall. Children will have the added incentive of earning prizes for their recreational reading and discovering some of the treasures at the library.

Registration is Monday through Thursday during regular library hours: 1pm to 8 pm, throughout the duration of the program.

Kids can get a positive charge at activity hours in the library on Tuesdays, June 6, 13, 20 & 27 and July 11 at 6:30pm.

Kids Activity Week will wrap up the special activities each evening July 17 thru July 20 at 6:30. We will have special guests each evening that week.

## Friends of the Bellwood-Antis Public Library

Come to the library and see the line-up of baskets to be raffled off after the Community Picnic in July. Merchants from Tyrone, Bellwood, and Allentown have generously donated items and gift cards. Every basket is valued at over \$300. Tickets are \$2 each or 3 for \$5. We thank the community of Bellwood and surrounding area merchants for their generous support of our library.

**BOB EVANS Community Fundraise - Dine to Make a Difference!** On May 17, 18 & 19 from 6AM until 9PM you can support the library by enjoying a meal at BOB EVANS. Just pick up a flyer at the library, turn it in when you pay your check and the library receives 15% of your purchase.

See page 10 for a list of gifts for sale at your library!

## 98<sup>th</sup> Annual Bellwood-Antis Community Picnic & 2017 All-Class Reunion



**FUN EVENTS AND FREE  
ENTERTAINMENT... PLUS**

**FREE ALL-DAY FUN PASSES for all  
Bellwood-Antis School District Youth!**

**Friday, July 21, 2017**

*DelGrosso's Park &  
Laguna Splash Water Park*

See page 9 for a list of scheduled events!



## Antis Township News

### MESSAGE FROM THE BOARD OF SUPERVISORS

We know many of you are turning your thoughts to summer so we have provided a few informational topics to assist you and your families with some of our summer projects and regulations.

### RECENTLY ADOPTED ORDINANCES AND RESOLUTIONS

- Resolution #1-2017** Appointment of Auditors for year ending 2016 audit
- Resolution #2-2017** Non-Corporate Resolution (Principal Financial)
- Resolution #3-2017** Road Vacation Policy
- Resolution #4-2017** Resolution authorizing Berthelmer Tax Collection Agency to collect delinquent Per Capita taxes for the year 2016
- Resolution #5-2017** C2P2 Grant Application Bellwood Antis Community Park Further Development (Second Application)
- Resolution #6-2017** Destruction of Records

### RECENT PLANNING COMMISSION RECOMMENDATIONS

- > Recommended approval of the Eric and Barry Gheer Lot Line Change
- > Recommended approval of the Barbara Mills Minor Subdivision
- > Recommended approval of the Houy/Showalter Land Development

### CAPITAL IMPROVEMENT PROJECTS/PROGRAM UPDATES

> **Grant Application for Park Improvements** – We are happy to report in April the Township Staff submitted two (2) applications for additional grant money through the Pennsylvania Department of Conservation and Natural Resources (DCHNR) and Southern Alleghenies Planning Commission for construction money in the amount of \$600,000 which, if secured, will be used to make improvements at the Bellwood-Antis Park. The recommended improvements for the park are a new park entrance sign and way finding signs, newly created pedestrian & bicycle routes, several new parking lots, a new cul-de-sac with ADA parking spaces and a rain garden, stormwater improvements, a new volleyball court, a new basketball court, security lighting, a picnic/garden space and landscaping.

> **Logan Valley Street Car Trail Feasibility Study** – Last year the Township submitted a grant to secure funding to complete a feasibility study for the possibility of creating 5.8 mile walking trail along the old Logan Valley Street Car route. We are happy to report the Township was successful in securing that funding and in April of this year put out a request for proposals for consulting services. The hired consultants will work with volunteers from the community to complete the study.

> **2017 Paving Project** – The Antis Township Board of Supervisors has publicly requested bids for this year's paving program. This year's ambitious paving program includes the paving of the following roadways as recommended by the Township Road Foreman:

- Frederick Street Extension-Tipton
- Greg Street
- Eric Street
- Pamela Street
- Clearfield Street
- Kingdom Street-From State Road to Lynn Drive
- Lee Drive-From Forrest Street to end of road
- Spruce Street
- Tipton Manor Road
- Lower Skelp Road

- Blair Street
- Pine Street
- Emory Street
- Laurel Street
- Laurel Drive
- North 9th Street
- 10th Street
- Kelsey Road
- Public Works Parking Lot

We would like to apologize in advance for any inconvenience this year's paving program will have on you and your family and we will do our best to inform you of the start and completion dates of this public project.

**BOARD OF SUPERVISORS**  
Meets the 1st Thursday at 7:00pm  
• Chairman Leo Matuszewski  
• Vice Chairman David Worthing  
• Supervisor Robert Smith  
• Supervisor Kenneth Hostler  
• Supervisor Charles Caracciolo

**CAPITAL IMPROVEMENT COMMITTEE**  
Meets the 3rd Thursday at 6:00pm  
• Supervisor Robert Smith  
• Supervisor Kenneth Hostler  
• Supervisor Leo Matuszewski

**PLANNING COMMISSION**  
Meets the 3rd Thursday at 7:00pm  
• Chairman Norman Saylor  
• Vice Chairman Robert Smith  
• Secretary Sherree Otto Luba  
• Commissioner Charles Taylor  
• Commissioner Thomas DelMastro

All meetings are held at the Antis Township Municipal Building located 909 N. Second St. Bellwood, PA 16617

### TOWNSHIP SERVICES

> **Antis Township Composting Yard** – The Township operates a Yard Waste Composting Facility that is open year round to residents of Antis Township. To get to the site from the municipal building, you will travel northeast on North Second Street approximately 9/10 of a mile. The facility is located at the end of a short road just past Oswald Road and before the Fostoria rail crossing.

Compost is a great soil amendment for lawns, gardens, and flower beds. It helps to improve water holding capacity and provides nutrients. Compost can be applied as a top dressing to lawns or flower beds and/or can be mixed with top soil to improve your soil quality.

The site accepts yard waste, including trimmings from bushes, trees, leaves, and grass clippings all at no charge! Those making a drop off at the yard should be aware that all contaminants, such as metals, plastics, rocks, lumber, and refuse, should be eliminated from the brush, as they could damage our equipment. This "waste" is converted into compost and mulch that is ready for your planting beds. Additional information on composting can be found at (<http://hccenvironment.org/composting>).

Commercial use is now permitted, however commercial entities must first secure an annual pass from the Intermunicipal Relations Committee (IRC). Once purchased a decal will be provided and must be displayed on vehicles that enter the compost facility. Those who fail to comply with this policy will be prosecuted. The IRC can be contacted at (942-7472).

Compost and mulch may be picked up during regular operating hours (Monday through Saturday 8:00 a.m. until 7:00 p.m.).

New this year to the compost facility was the installation of recycling containers. We accept paper, plastic, metal cans and cardboard.

Please be courteous to the neighbors living in the area and watch your speed as you enter and exit the site.



# NEWS FROM THE FRONT

## From Bellwood to Burma and INDIA!

### INDIA



In January I was privileged to return to India for a ground-breaking ceremony for the Boys and Girls Christian home! The new dorm will provide housing for 150 orphans from India.

### Last Blast of Summer

I'm also excited to share our 2017 "Last Blast of Summer" artists! As always, parking admission to DeGrosso's and ALL stage events are free. The day begins with Worship at 11:00 AM.



Stars Go Dim at 3:00 PM



Aaron Shust at 7:00 PM

*As always, we thank you for your support and prayers!*

## The Burma Project II

Simultaneously, we're raising funds for The Burma Project II. Burma II requires \$15,000 for an entrepreneurial agriculture module. Funds will train students and purchase equipment to take to their respective villages; enabling them to "grow a business" of their own.

Katyn (Palmer) Dix has launched Dixie and Company to raise funds for Burma! Go to [www.dixieco.com](http://www.dixieco.com) to see her handmade jewelry! Use "frontline" at checkout and 25% of your purchase will support The Burma Project!

We also welcome personal, church and corporate donations and sponsorships! I'd be glad to make a presentation to your school, church, business or community group. Please feel free to contact me to schedule a visit!



Clip and return to FrontLine Ministries, Box 9, Tipton PA 16684 • 814-684-1515

Name \_\_\_\_\_ Email \_\_\_\_\_ Phone \_\_\_\_\_  
Address \_\_\_\_\_

Enclosed is a gift for: ☐ The Burma Project ☐ Contact me about a presentation for The Burma Project ☐ Brain Injury Outreach  
☐ India Outreach ☐ Use where needed most.

*All checks should be made payable to FrontLine Ministries Inc. You will be issued a receipt for your donation.*

**JUDY WARD STATE REPRESENTATIVE**  
*Representative Ward has an office in Bellwood to better serve constituents in the Northern Blair area of the 80th District. Contact Constituent Outreach Specialist Carol Peterman at 742-7204 for assistance with state-related issues.*

Northern Blair Office  
135 Stadium Drive  
P.O. Box 111  
Bellwood, PA 16617  
814.742.7204

Primary Office Location  
314 Allegheny Street  
Hollidaysburg, PA 16648  
814.695.2398

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

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Allentown, PA 16602

Each Office is Independently Owned And Operated.

# THE DOOR

STUDENT SERVICES, INC.  
P.O. Box 8 Bellwood, PA 18807

In 1996 I was a youth pastor at First Baptist Church of Altoona and I became prayer partners with George Palmer of Frontline Ministries. We would meet at his home in Tipton on Thursday mornings at 5:30 AM to pray for each other's ministries and families. At the time George planned the first summer camp program (called Impact back then) to reach at-risk teenagers with a life changing message and a first rate program geared to their special needs. I was invited to come along and direct the games and bring fun activities. Now 21 years of summer camps later I am in awe of all that we have been blessed to do for the over 3000 kids who have attended our scholarship camp program. We have rented different facilities over the years and added a winter weekend as well. We have raised and spent over \$450,000 to give our area kids in need the best week of their lives. I am so thankful to the people and businesses and churches who have made significant financial sacrifices to make what we do possible.

The camp program uncovered the need for year round follow up with the kids and lead directly to the opening of The Door after school center in September of 1998. Each summer my wife and I would take my vacation as a church pastor and serve a week at Door Camp to bring games and fun beyond anything the kids would expect in their lives. I remember in the summer of 2002 coming to camp and halfway through the week being asked to speak in chapel for the remainder of camp because the planned speaker had a sudden health issue. I remember being asked by George Palmer at the end of the week to pray about leaving my church and moving to Bellwood to take over The Door. I immediately said no, but God would not let me be at peace for the next several weeks. Finally as a family we felt it was definitely in God's plan for us to leave our church in New York and become the "Mom and Dad" of The Door. August 15, 2002 we moved our family of five and a dog into a 1 bedroom apartment on Main Street (the children's wing of the Library is there now) and began a journey of faith and service to the kids of our town.

www.thedoorkids.com  
www.lionheartprogram.com  
(814) 935-9971  
thedoorkids@mail.com

Summer 2017

We raised three of our own kids in Bellwood and are now experiencing the joys of being grandparents. Our program has grown too serving grades 5-12 Monday thru Friday year round at The Door. We have now served over 50,000 meals on donated supplies offering a free dinner to any teenager who comes in daily. Later this year The Lionheart Program will open to mentor disadvantaged young men of our community into successful adults. Pray for us as we will need to expand our staff to meet these needs. Currently our staff is just my wife and I and a local retired man who volunteers to help us every day. We need your monthly gift to help keep us going. We do not receive government funding and rely on individuals, businesses and churches sending us regular support (we are a 501(c)(3) public charity).

July 23 we will be running our 21st Summer Camp and are expecting 125 teens plus staff. We will need to raise \$150 per teen or \$1500 per cabin (ten teens per cabin) to cover each one. In the past 20 years we have never turned away a teenager who had no money to attend. Can you help us? Can you sponsor a teenager? Can your church, business or civic group sponsor a cabin? We aren't just entertaining kids, we are literally saving and changing lives forever. From teen suicide to drug abuse and domestic violence...we have handled it all and have always had our needs met by good people who send what is needed so we can love on the kids. Often I remind the kids at The Door that I will treat each one as if they were my own child. I am asking you to treat a child as if they were your own and help send them to camp with us. Send your tax deductible gift to "Door Camp" P.O. Box 6 Bellwood, PA 18807. God Bless you for all you do!

DAVID & GELA TAYLOR  
Dad & Mom at The Door

"21 YEARS OF SUMMER CAMP" – Where Everyone IS Family! –

Tyrone (814) 684-5132    Huntingdon (814) 643-6808    Altoona (814) 946-0795

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 Family Dentistry

942-5579

3010 E. Pleasant Valley Boulevard

## TOWNSHIP REGULATIONS

> Building Code – Even though the Statewide Building Code has now been in effect for a few years, it is still useful to periodically review a few things that many people may not be aware of regarding this mandatory state law.

1. Most decks, patios and sunrooms have required building permits in the Township for many years. Now, in addition to requiring a permit, many of these structures will also require inspections under the building code. This is dependent on size and other factors.
2. Many people may not realize that swimming pools also require a building permit. It may come as a surprise to some that even temporary inflatable pools often require a permit. If your pool contains 24" or more water, a permit and inspections are required. When retailers sell these "inexpensive" pools they fail to let customers know that there are significant additional expenses involved such as the cost of installing a 4' permanent fence with a locking gate all the way around the pool. For more information on these and other requirements for a swimming pool permit you may wish to call the Township office and speak with the Ordinance Enforcement Officer before taking advantage of one of these "bargains".

If you have questions on these or other building related concerns, please call the Township office before beginning the project. Getting answers to your questions in advance will save you money and help avoid costly delays.

## THINGS TO CONSIDER

> Recycling at Home – Citizens are reminded that the Township has a curbside recycling collection program. Solid waste haulers are required to collect Act 101 recyclables. Aluminum cans, bi-metal cans, glass bottles and jars (clear, brown, and green), plastic bottles and jugs, newspapers, magazines, catalogs and other printed paper are all collected at the curbside by haulers.

Township residents are encouraged to separate recyclables from solid waste and prepare them for collection. All trash haulers providing service within the Township are required to collect recyclables. If your hauler is not keeping recyclables separate from other solid waste you should contact the Inter-municipal Relations Committee (IRC) Council of Governments (942-7472) and notify them of the problem. Curbside bins and informational pamphlets regarding recycling are also available at the Township Office.

Reminder: State law (The Covered Device Recycling Act of 2010) now prohibits the disposal of televisions, computers, computer monitors and most computer peripherals. All these electronic devices must be recycled. The IRC offers free recycling of these products at their recycling and composting facility in the village of the Backhorn on Blacksburg Road.

> Litter Bugs BEWARE – The Township, in conjunction with the Inter-municipal Relations Committee and the Pennsylvania Fish and Boat Commission, has been successful in the identification and prosecution of those who dump their trash along roadways and river banks. This thoughtless behavior reflects badly on all of us. Join the effort to keep our community a clean and pleasant place to live. Residents can contact the Inter-municipal Relations Committee (IRC) Council of Governments (942-7472) and notify them of illegal dumping activity.

Additional information regarding Antis Township is available on the Township website (www.antistownship.org)

Lucas L. Marzolf, Manager

## Borough &amp; Township

Antis Township Board of Supervisors & Superintendent..... 742-9015 or 742-7361  
Antis Township Tax Office..... 742-8094  
Bellwood Borough..... 742-8711  
Bellwood Borough Municipal Office..... 742-8591  
Northern Blair County Regional Sewer Authority..... 684-1177



## Bellwood Antis POOL NEWS

Summer is just around the corner, and you know what that means! The Bellwood-Antis Community Swimming Pool will open on May 27, 28, and 29 for Memorial weekend. Then, on June 3, the pool will open for our summer season! We will close on August 20, and then open up for the weekends of August 26 and 27 and September 2, 3, and 4! The pool will be open from noon to 7:00 PM, weather permitting! Season pass rates are the same low prices as last year, and don't forget to get your passes during the month of May for your 10% discount! Stop by the Antis Township office, the Bellwood Borough building, or the Hollidaysburg Area YMCA to purchase your youth, adult, or family passes today! Also, our day rate for residents is only \$4.00 for youth, and \$5.00 for adults!

The pool will once again be operated by the Hollidaysburg Area YMCA. In the upcoming weeks, our lifeguard staff will be busy cleaning up the pool, bath house, and concession stand in preparation for a great summer! Once again, our concession stand will offer some great snacks and lunch items at unbeatable prices! The pavilions by the creek are available for rental, and once again, our pool is available for after-hours rental at just \$75.00 per hour for residents!

Learning to swim is a vital skill, and we will again offer swim lessons to children aged 3 through 12. Our preschool class is designed for children aged 3-5 and our progressive class is suggested for our 6-12 year old soon-to-be fish! The first session of classes begins June 12 or 13. We will also be offering private swim lessons for all ages! Call the pool at 742-7662 after May 27 to register or for more information!

Are you ready to dance? How about games and prizes? Our monthly splash hops with a DJ are back! They are tentatively scheduled for June 24, July 26, and August 10! More details will be available at the pool! Friday, June 9 will be Buddy Day. On this special day, members may bring a friend for \$2.00! We will also be holding \$2.00 days for the public on June 18, July 9 and August 21!

Finally, we would like to share some exciting news! The Hollidaysburg Area YMCA is once again working with Operation Our Town to bring you a special Splash Hop for families on Saturday, June 24 from 7:00-10:00 PM. We will provide food, prizes, and a reduced admission rate! Look for more details to come!

We look forward to seeing you all at the pool! Come enjoy a great summer with us!

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FAX: 814-942-6797

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Residents are reminded that the following people serve as Borough Council members. Herb Shelow, Borough Council President; Irene Fellabaum, Vice President; John Winesickle, Mayor; Jim Bilka; Andy Stowell; Kathy Dietzel; Paul Eckenrodt; Dave Snyder; Lee Oswalt, Solicitor. Meetings are held in the Borough Building Main Street on the first Monday of the month at 6pm. The meetings are open and residents are invited to attend.



**JON EPPLE**

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**5303 E. Pleasant Valley Blvd., Tyrone  
684-1732**



## Bellwood-Antis School District Foundation

Excellence is a Lasting Tradition

**YES: I would like to be a part of the BASD Foundation!**

Please complete, detach, and return this included form.

☐ Enclosed, please find my tax deductible contribution.

(Please enter the total amount of your contribution below.)

Make checks payable to: Bellwood-Antis School District Foundation  
\$ \_\_\_\_\_

My tax deductible contribution is: ☐ A Bequest ☐ A Gift

Contribution is restrictive to: ☐ Academic ☐ The Arts ☐ Special Projects

☐ Building and Grounds ☐ Non-restrictive ☐ Athletics

The donation is anonymous: ☐ Yes ☐ No

Please provide your mailing address in the space provide below.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone \_\_\_\_\_

Superintendent's Office  
Bellwood-Antis School District Foundation  
400 Martin Street • Bellwood PA 16617  
Phone: (814) 742-2271

Contact the Bellwood-Antis School District Foundation to receive more information about grants, donations, and programs

### — Dates to Remember —

May 31 — Baccalaureate — Auditorium — 7:00 PM

June 2 — Graduation — Memorial Field (as weather permits) — 7:00 PM

### Support the James Stephens Scholarship Fund

Born to meager circumstances, Jim "Whitney" Stephens became president of his class at Bellwood Antis, graduating with honors. In 1967, Captain James Stephens was killed in the line of fire in the Vietnam war. Members of the BAHS class of 1960 founded a scholarship in his name. James Stephens made the ultimate sacrifice for your country. Please honor his memory by sending a check to:

Bellwood-Antis High School  
Martin Street • Bellwood PA 16617  
Put Captain James Stephens Scholarship on memo line



### Bellwood Antis Council of Churches

## FOOD SHARE

P.O. Box 135 • Bellwood, PA 16617

The Bellwood Antis Council of Churches Food Share program has been serving the needy in our local community for approximately twenty years. Our goal is to help those who are less fortunate, with little or no income to provide food for them to feed their families. All families are required to meet government standards and show proof of income. This service is provided four times a year, April, August, November and December and also on an as needed basis during other months.

This is an all volunteer program and all products and monetary gifts are used to provide the families with groceries. The local ten churches donate the dry goods to our storage area and it is dispensed from the Hope Center on Main Street. We also provide vouchers for use at the local Bellwood Hometown Market for families to purchase meat, eggs, bread, milk, cheese, potatoes and also. As we provide food for approximately 100 families or approximately 400 people at each food give away, the costs approximately \$2,000.00 to provide for the perishables.

This project welcomes any and all help that can be provided, so that we are able to continue this worthy project to the Bellwood Antis community.

Any questions, contact Joyce Knowles at 944-5506.

## DIAL 2-1-1

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8AM-4:30PM

SATURDAY  
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## 944-4051

Reflective Address Signs \$15.00  
Can be purchased from any  
of the below Fire Companies.



### Pinecroft Volunteer Fire Company

BINGO

Wednesday & Saturday

Doors open at 5:00 pm • numbers called at 6:30 pm



### Excelsior Fire Company No. 1

399 S. 1<sup>st</sup> Street BELLWOOD

Thank you for YOUR continued support that allows us to provide  
Fire & Emergency Services to YOUR community!

100% Volunteer since 1891

Always looking for new volunteers.

Stop by the fire station for details!

### BELLWOOD ANTIS HISTORICAL SOCIETY

Public is invited to all meetings

For more info call Mary Brunner 684-4884.

Monday, May 22 David Wulderk Bloody Knox, Clearfield, PA

Monday, June 26 James Gindlesperger Arlington National Civil War Cemetery

Monday, July 24 Marty Armstrong History of Pinesutawney

Monday, August 28 Nicole Bosley Stage Coach & Taverns

### BELLWOOD ANTIS DESCENDANTS OF CIVIL WAR VETERANS

Public is invited to all meetings

Meetings are the fourth Wednesday of the month

### Juniata Valley Audubon Society

Public is invited to all meetings

May 16: Kristin Jovell on Climate Change Science Expedition in Manitoba

June 20: 2015 Madeline Leckvarick Memorial Picnic 6 P.M.

DeWitt Memorial Field 400 Standing Stone Ave Huntingdon

## 32ND ORIGINAL ANNUAL TIPTON COMMUNITY

## YARD SALE

SAT., JUNE 3RD • 8:00 AM - ?



### Bells Gap Rail Trail News...

Finally summer is here! It seemed like a long, dreary winter but the trail was definitely used more than in past years. There were times when there were 15 or 20 cars in the parking lot at any given time during the day.

We hope you are enjoying the beauty of the trail this summer. There is usually a nice breeze as you walk along the trail and sometimes you can feel the temperature change from a warm breeze to a cooler one as you walk up the trail. So take time this summer to enjoy the trail in all of its summer beauty with family, friends or just a quiet walk by yourself. Pick a bench at one of the beautiful sights and sit a while. The parking is easy and plentiful. There is a restroom for your use and the picnic area is private and very well kept.

Many thanks as always to our faithful volunteers who keep the grass cut and the brush trimmed and to the trail walkers who keep the trail free of litter and clean up after their dogs. The trail belongs to the community and all of the help is greatly appreciated. Thank you also to all who make monetary donations in our box in the parking lot. Any suggestions or ideas you have to benefit the trail please tell us at the library or on our website. <http://www.rtipca.org/bellsgap.shtml>

Watch for any fundraisers that may be coming up. We did not have our annual yard sale this spring but are thinking about one in the fall. We still have Rada Cutlery for sale through Hazel and any Rails to Trails committee member.

Have a happy, healthy and safe summer and get to the trail. It is a great place to spend your summer days. (P.S Don't forget your camera)



720 E. 9th Street  
Bellwood, PA 16617  
814-742-8765

## Bellwood-Antis Township Park and Recreation Authority

The Park Authority is anxious for another great summer full of FUN and activities at the Bellwood Community Park! New for this season is the availability of wi-fi access for the pool patrons.

Through a collaborative effort between Bellwood Borough Council and Antis Township Supervisors a drainage trench is in the process of being installed on the pool deck to address storm water.

We will again be offering our very popular swim lessons for children ages 3 and up! We have Preschool classes for 3-5 year olds, and Progressive classes for children 6 and up, and we offer both morning and evening classes. There will be three sessions of lessons, one starting in June, one in July, and one in August. Call the pool after Memorial Day for more information on registering your child! 742-7662

A reminder that if you have a special event going on this summer, whether it be a birthday party, family reunion, baseball party, or even a shower, give us a call! Our Pavilion rentals are a big hit for parties of all kinds. We also offer After-hours Pool Rentals, which were a huge hit last year! You bring the food or cake, and we provide the pool, slides, lifeguards, and FUN!!!

In closing, we look forward to serving the Bellwood-Antis community this upcoming season and we always encourage the community to provide their feedback.

Darin Tornatore  
President of the Bellwood-Antis Park & Recreation Authority

**Pavilion Rentals at the Park**  
**742-7361 for reservation**

### AMATO LARGE PAVILION #1

W/ ELECTRIC/WATER/GRILL

CEMENT FLOOR

\$ 80.00 per day

\$ 20.00 per hour

### MCCAULEY PAVILION #2

W/ ELECTRIC/WATER/GRILL

CEMENT FLOOR

\$ 60.00 per day

\$ 15.00 per hour

### KENSINGER PAVILION #3

W/ ELECTRIC/WATER/GRILL

CEMENT FLOOR

\$ 30.00 per day

\$ 10.00 per hour

### HIMES PAVILION #3

W/ ELECTRIC/WATER

CEMENT FLOOR

\$ 25.00 per day

\$ 7.50 per hour

## Blair County Wildlife Rehabilitation and Educational Center, Inc.

393 Igou Road • Tyrone, PA 16686

www.bcwr.org • Blaircountywildlife@yahoo.com

814-742-7439



## The Bellwood Antis Lions Club

**WANTED:** People who are willing to volunteer and help our community.

The Bellwood Antis Lions Club is looking for men and women who are interested in continuing the Lions tradition of serving and helping others in the Bellwood Antis area.

The Bellwood Antis Lions Club was formed in 1931 and in the years that followed, they volunteered in community services.

We would like to continue the tradition in the future and need to increase our membership to be successful.

Some of the areas we are active:

- Scholarship at Bellwood Antis High School
- Sponsor a youth group (Leo Club) at BAHS
- Participate in the Bellwood Antis Christmas Food Basket Program
- Sponsor a Peace Poster at BAHS
- Sponsor an essay contest at BAHS

If you are interested in joining the BA Lions Club contact Don Mills at 742-7127. We look forward and encourage you to join us.

## Joanne's Dog Station

Certified Dog Groomer

Joanne Patterson  
Owner

334 Main Street, Suite 2  
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"We Groom with Love & Patience"



## Military Family Ministries

Military Families Ministry (MFM) has shipped over one hundred care packages, so far in 2017, to deployed troops containing Valentine's Day and Easter treat bags, bulk snacks, personal care items, and socks. In April, we shipped over 1,000 boxes of Girl Scout cookies that were donated to us by Girl Scout troops around the area.

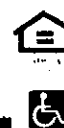
**Operation: Socks for Soldiers**, which used to be our summer project has become a year-round event. We have shipped over 10,000 pair of socks since May of 2016. We are now collecting black crew and ankle socks to ship to our troops serving in the Middle East. We have already received emails stating that the extreme summer temperatures have begun and it is critical for our service members to have clean dry socks.

There are several ways you can help MFM support our troops and their families; participate in one of our projects; donate needed items; host a donation drive at your church, community group, or place of employment; make a monetary donation; volunteer to help with packing and shipping of items to the troops.

MFM meets on the fourth Tuesday of each month at 6:30 PM at The Hope Center on Main Street. Everyone is welcome and most of our meetings are work meetings spent sorting and packing boxes for shipping.

Contact Tracie Ciambotti at [tracie@militaryfamiliesministry.com](mailto:tracie@militaryfamiliesministry.com) or 814-880-7206 for a current list of needed items or to set up a donation drive.

Visit MFM on the web at [www.militaryfamiliesministry.com](http://www.militaryfamiliesministry.com) for additional information on service projects and activities.



## Bell Mansion Apartments

617 Stadium Dr., Suite 100 • Bellwood, PA 16617

Bell Mansion Apartments consists of 34 one bedroom apartments which are HUD subsidized for individuals who are 62 years of age or older. Annual income cannot exceed \$20,200 for one person and \$23,050 for two people.

All utilities are included in the rent except for telephone and cable which are optional. The apartments include a range, refrigerator and individually controlled heat and air conditioning. Bell Mansion Apartments offer many amenities: laundry facility, elevator, private parking, 24-hour emergency maintenance service, 2 covered patios and a beautiful setting at the end of town. Please contact the office at 742-1210 for an application or further information.

**NO  
UTILITY  
BILLS!**

**NO MORE  
CUTTING  
GRASS!**

## BAYFL

Bellwood Antis Youth Football League

Saturday, July 29 from 10 AM – noon  
Youth Football/Cheerleader Sign-ups

at Bellwood Antis Community Park  
Questions Call Jeff 329-2590



## Dogs Deserve Better

Reach us anytime at  
[www.dogsdeservebetter.org](http://www.dogsdeservebetter.org)

or you can still call 757.357.9292.

Thank you for the years of support!  
Remember, the chained dogs need  
ALL of us advocating for them.

Watch out for the ones near you.

Residential • Commercial • Industrial • Churches



Owner  
John Erickson  
(814) 946-3250

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Pressure Washing  
Deck Restoration  
Drywall Finishing & Repairs  
Quality Work Fully Insured  
PA#098047

Estimator  
Ken Rutter  
(814) 942-6225

## SUPERHEROES WANTED



Relay For Life of Northern Blair



The world's largest fundraising event to save lives from cancer.

June 23rd & June 24th  
10:00 AM  
at the Bellwood-Antis  
Football Field

Help us line the track with quarters –  
Our goal is to make it the  
whole way around the track!

Starting Friday, June 23rd, 10 am –  
Saturday, June 24th 10 am.  
24 HOURS!

Bellwood-Antis Football Field

This years theme is Heroes, come be a HERO  
and walk with us!

Like our Facebook page:  
Northern Blair Relay For Life

Residential 151 Chief Logan Drive  
Commercial Tyrone, PA 16686  
Roll-Off Dumpsters 814-742-9397

tuckahoevalleydisposal@yahoo.com

**TUCKAHOE VALLEY DISPOSAL**  
YOUR HOMETOWN HAULER



Jim Gerwert  
Owner/Operator  
814-934-1133 Cell

Tobias Nagle  
Owner  
814-742-9397 (H)



### Gift Ideas for sale at your Library

Bellwood "The Early Years" Rich history, old photos and documents

2 Vol soft bound book \$75. Computer CD \$25.

Bellwood First 75 Years 1888-1963 \$25

Borough of Bellwood, PA 1888-1988 \$25.

Blair Main Line A History of the Tuckahoe Valley \$15.

Bells Mills becomes Bellwood 1880-1887 \$4.40

Reproduction print of Bellwood map of 1895 \$50.

Bellwood-Antis High School Yearbooks \$35.

Bellwood Bulletin 1988 Centennial Edition 6 days \$2.50

Historic Bellwood Postcards \$1.00 each

Altoona Speedway 1922-1938 Computer DVD \$25.

RADA Cutlery

Handmade Baby Afghans \$25. Knit Hats \$5.

Bellwood Antis Public Library canvas book totes \$5.

Gardner's Chocolate/Peanut butter Pretzel rods \$3.

Handmade Painted Seasonal Pins \$3.

Artwork and Photographs

**LC**  
**localconnect**  
Your local connection to the internet

Internet services for home and business  
Call John Garber at 888-594-8324

(Host site for the Bellwood-Antis Community Webpage)  
[www.bellwoodantis.net](http://www.bellwoodantis.net)

## Bellwood-Antis Churches

### PINECROFT UNITED METHODIST

Forshey Avenue, Pinecroft  
(814) 684-0179

Sunday Worship – 10:00 AM  
Sunday School – 11:00 AM

### HILLSIDE COMMUNITY CHURCH

508 South Cambria Street • Bellwood PA  
(814) 742-8581 • [www.hillsidecommunitychurch.net](http://www.hillsidecommunitychurch.net)

Sunday School and children's classes during both worship services  
Sunday Worship – 8:45 AM and 10:00 AM

### ST. JOSEPH'S CATHOLIC

623 East Third Street • Bellwood PA  
(814) 742-7075

Week Day Masses – 8:00 AM  
Saturday Vigil – 4:00 PM  
Sunday Mass – 8:00 AM and 10:30 AM

### CALVARY UNITED METHODIST

North 4th & Tuckahoe Streets • Bellwood PA  
(814) 935-4900

Wed. Bible Study (all ages) – 7:00 PM  
Sunday Worship – 9:00 AM  
Sunday School – 10:00 AM

### CHURCH OF THE BRETHREN

1823 North Tuckahoe Street • Bellwood PA  
(814) 742-8658

[www.thebellwoodchurch.com](http://www.thebellwoodchurch.com)  
Sunday School – 9:30 AM • Sunday Worship – 10:40 AM  
Sunday Evening Worship – 6:00 PM • Jr./Sr. Youth  
Wednesday Prayer & Bible Study – 9:00 AM and 6:30 PM

### TRINITY UNITED METHODIST

523 Main Street • Bellwood PA  
(814) 742-8136

Sunday School – 9:30 AM  
Sunday Worship – 10:45 AM

### LOGAN'S VALLEY BAPTIST

Main & Boyles Street • Bellwood, PA  
(814) 742-7091 • [www.loganvalleybaptist.org](http://www.loganvalleybaptist.org)

Wednesday Morning Bible Study – 9:15 • Evening – 6:30 PM  
Sunday School – 9:30 AM • Sunday Worship – 10:45 AM

### NEW LIFE WORSHIP CENTER

3 Ritz Rd. (Pinecroft Exit beside Pepsi) • Altoona, PA 16601  
(814) 949-9282 • [www.NewLifeAltoona.org](http://www.NewLifeAltoona.org)

Sunday  
Adult & Youth Sunday School . . . 9:00 am  
Worship Service . . . 10:00 am  
Tuesday Youth Group . . . 6:30 pm  
Wednesday Kids & Adult Classes

### TIPTON UNITED METHODIST

Tipton PA (Near the railroad tracks)  
(814) 742-8136

Sunday Worship – 9:00 AM • Sunday School – 10:15 AM

### LOGAN VALLEY PRESBYTERIAN

400 South First Street • Bellwood PA  
(814) 742-8039

Sunday School – 9:15 AM • Sunday Worship – 10:30 AM

### GRACE EVANGELICAL LUTHERAN

1114 North Cambria Street • Bellwood PA

Sunday School – 9:30 AM • Sunday Worship – 10:45 AM  
Praise & Prayer Wednesdays 7:00 PM

### FAITH BIBLE CHURCH

(814) 381-9053

SUN – Sunday School and Adult Bible Study: 9:00am  
Morning Worship: 10:00am  
Evening Teaching: 6:00 pm  
Wednesday – Awana Kids Clubs and  
Teen Ministry: 6:30 pm

### TIPTON BAPTIST CHURCH

Forrest and Deborah Streets • Tipton, PA 16684  
Phone: (814) 684-4941 • [www.tiptonbaptistchurch.com](http://www.tiptonbaptistchurch.com)

Sunday Worship Times . . . 10:45 am & 6:30 pm  
AWANA for Pre-K – 6th Grade . . . 6:00 pm  
Wednesday: JR & SR High Teens . . . 6:30 pm  
Prayer Meeting . . . 7:00 pm

### BRIDE OF CHRIST CHURCH

907 North 3rd Street • Bellwood, PA  
Phone: (814) 742-8000

Sunday School – 9:15 AM • Morning Worship 10:00 AM  
Everyone is Welcome

# Live life to the fullest with occupational therapy!



- Specialized hand therapy programs following surgery
- Strength, coordination and endurance exercises to improve hand and arm functioning
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- Improve independence with self-care tasks in the home (showering, cooking, etc.)
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**814-944-8264**

**PHYSICAL THERAPY & OCCUPATIONAL THERAPY**

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REHABILITATION AND HEALTH SERVICES, INC.

**32ND ORIGINAL ANNUAL TIPTON COMMUNITY YARD SALE**  
SATURDAY, JUNE 3RD • 8:00 AM - ?

Don't miss this annual event.  
Hundreds of participants,  
food and bargains.

**Northern Blair County Recreation Center**

Serving the youth and fitness needs of our community is our #1 priority!  
Hours of Operation:  
Monday - Friday 5 AM to 9 PM  
Saturday 8 AM to 5 PM • Sunday 12 PM to 4 PM

**4 Seasons Farm**

**Quality**  
**100% Grass-Fed Beef**  
"Food with Integrity"

305 Pacanowski Ln (814) 684-2899  
Tyrone PA 16686 4seasonscattle.com

# Bellwood-Antis Community Picnic

**CHICKEN BAR-B-QUE**  
from 5-7pm  
**\$8.00 per dinner**

Tickets Available At:  
Sue Whiteford's Beauty Shop - Bellwood  
McCracken's Garage - Bellwood  
& Rossi's Corner Store - Tipton

Hosting the 2017 All-Class Reunion  
Is the Bellwood-Antis High School

**"CLASS OF 1967"**  
Pavillion #4

**BELLWOOD & ANTIS TWP.**  
Vintage Photos & Memorabilia  
Visit Us in Pavilion #4

**HAVE AN IDEA FOR NEXT YEAR'S PICNIC?**  
LET US KNOW...SEE ANY  
PICNIC COMMITTEE MEMBER.

# Come Ride & Slide

All Bellwood-Antis School District Students in grades pre-school through 2017 graduates and school age children of Bellwood-Antis graduates who have registered for the All-Class Reunion Ride & Slide All Day For FREE!!

Get your FREE Fun Pass wristband at the Red & White Tent located next to the Kid's Kingdom ticket plaza & Murf's Patio. Children of Alumni must first get ticket from Pavilion #4 and bring it to Red & White Tent to receive free ride pass.

# Schedule of Events

10:30am-7pm	Ride Pass Distribution - FREE All-Day Ride & Slide Pass for BA School Age Youth Located in the Red & White Tent near Murf's Patio
2pm	Children's Games - Located in Pavilion #3
2:30-3pm	Registration for the 3rd Annual BA Youth Bean Bag Toss Tournament w/ event directly after. Open to BA Youth from Grade K Thru Age 11. CASH PRIZES - See Rules at Registration
3pm-?	Bellwood-Antis Lions FREE Bingo Located in Pavilion #4
5-7pm	BA Community Picnic Chicken Bar-B-Que \$8.00 per dinner - Located in Pavilion #2
6:30-8pm	Bellwood-Antis Community Choir & Children's Choir Under the direction of Mr. Richard Bower & Mrs. Jennifer Wright
8pm	Hometown Raffle Drawing Presented by: M&T Bank
8pm	4th Annual BA Bean Bag Toss Tournament Presented by: First Commonwealth Bank CASH PRIZES
8:30-10pm	Enjoy the music of Born and the Beanstalk on the Main Stage
10pm	<b>FIREWORKS</b>

Schedule Subject to Change

**M&T Bank**

Understanding what's important\*

Presents:  
**HOMETOWN RAFFLE**

This is **YOUR** chance to win Great Prize Baskets!  
**Plus... BIGGER Cash Prizes This Year!**

Anyone interested in donating items for the Raffle, please contact Sue Johnson at 742-7962



**BLAIR COUNTY  
CONSERVATION  
DISTRICT**

**SPECIAL  
POINTS OF  
INTEREST:**

- District Celebrates 50 years!
- Green Alternatives for Stormwater
- Plans progressing for District Property at Bedford Street

**INSIDE THIS  
ISSUE:**

AmeriCorp Planner	2
Low Volume Road Funds	3
Changing of the Guard	4
Envirothon Winners	5
District Funding	6

**2016  
ANNUAL  
REPORT**

# 2016 Annual Report

## 50 Years of Conservation 1966-2016



**Board and Staff Celebrate the  
50th Anniversary Proclamation**

January 5, 2016

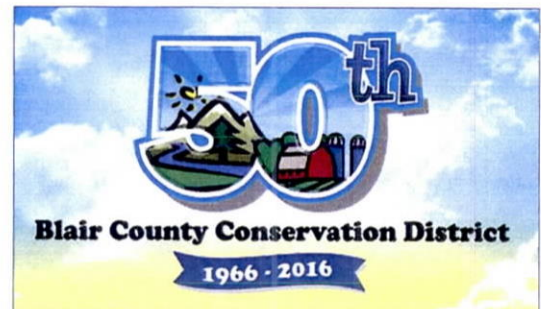
**L to R: Blaine Smith, Vice-Chair; Commissioner Terry Tomassetti; Rich Huether; Harold Bailey, Chairman; Chris Myers; Donna Fisher, Jim Eckenrode, Margaret Angle; Gary Long, Diane Thomas; Jim Biddle, Secty/Treas.**

2016 was the year to celebrate 50 years of conservation for the Blair County Conservation District! The District was formed by the County Commissioners on January 5, 1966, with the first order of business to provide service to the Agricultural Community.

Festivities started with the 50th Anniversary Proclamation issued by the current County Commissioners 50 years to the day on January 5, 2016.

Events throughout the year highlighted the progress and expansion of the district successes and programs.

One thing is for sure....the Blair County Conservation District is looking forward to another 50 years as your "One Stop Shop"!



**The Early Years....1976 Board of Directors**



## 50 Years Supporting Agriculture



Stabilized Animal  
Watering Area &  
Trough

Agriculture is the Number 1 industry in Blair County and the Blair District has a strong program to support agriculture.

The district was created by a petition from local citizens—mainly farmers—in 1966. Since then, we have implemented programs and projects to provide technical and financial assistance to farm landowners.

Funding through the Chesapeake Bay Program was attained in 2016 for the design

and construction of a Rotational Grazing systems on Blair County farms. Funds were also distributed for Nutrient Management Planning.

The district also serves as the reviewing entity for submitted Nutrient Management Plans, either volunteer or required by regulations and as the local contact for agriculture related complaints.

A major discussion point for the Blair District and others throughout the Chesapeake Bay Watershed was to

determine our participation level in "Farm Inspections" as proposed by the PA DEP. We did choose to provide a local presence to inspect farms and ascertain compliance with plan requirements associated with Erosion Control and Manure Management. We are annually required to conduct 38 inspections.

If you would like more information regarding programs, funding or inspections ....contact Rich Huether, Ag Conservation Specialist at 696-0877 ext. 5.

## 25 Years of Farmland Preservation

*21 of the 48  
permanently  
preserved farms  
totaling 3,400  
acres are located  
in Sinking  
Valley.....*

Blair County's Conservation Easement Purchase Program was approved in 1991 and work started shortly thereafter to ease the first farm in Sinking Valley belonging to Sheldon and Gertrude Fleck.

To date, 48 farms totaling just over 7,000 acres have been preserved for agricultural use in perpetuity!

Blair County Commissioners allocated a region leading

\$70,000 for preservation efforts in 2016, which was matched with State Funds. The total allocation of \$334,533 was held until 2017 to allow us to consider the easement purchase on a significant tract of land (350 acres) in Sinking Valley. It is anticipated that 2 or more farms will be considered in 2017.

The average easement value (the difference between the

development value and the farmland value as determined by an appraisal) for Blair County stands at approx. \$1,000 per acre. Which means that just over 7 million dollars has been paid to Blair County Landowners since 1991.

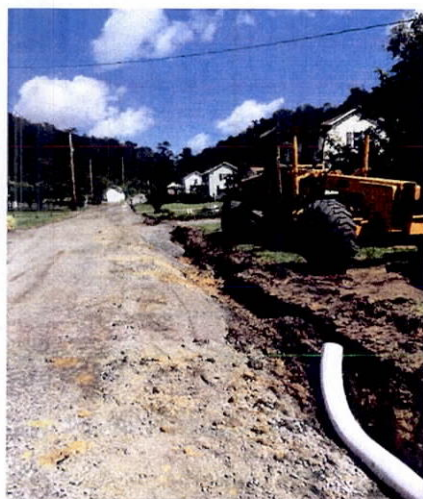
Annually, applications received by October 15th are ranked to be considered for funding in the following year. For an application visit the District website or call 696-0877 X 5.

Blair District is currently hosting Joshua Stoeher as an AmeriCorps Member to assist in the completion of Erosion Control and Manure Management Plans through August 2017 for Blair County Landowners.

Don't Delay....Contact Joshua or Rich at 696-0877 ext. 5 to get on the list



# Dirt, Gravel and Low Volume Road Program



## Edgewood Drive Catharine Township

Significant increase in funding for dirt and gravel roads along with the newly developed "Low Volume Road" component meant that Blair County received \$180,817 for 2016 with similar amounts to follow in subsequent years.

The funding program continues to address sediment pollution from undermanaged roads and drainage facilities on Dirt & Gravel Roads, and now allows for projects on paved Low Volume Roads (less than 500 vehicles per day).

## 2016 LVR Funded Projects included:

Edgewood Drive, Catharine Township  
10th Street, Duncansville Borough  
Kinsale, Darby and Margery Streets, Newry Boro.  
Poplar Avenue, Hollidaysburg Borough  
Yingling Road, Taylor Township

## 2016 D&GR Funded Project:

Halter Creek Road, Taylor Township

Applicants must be trained in the Environmentally Sensitive Maintenance techniques.

Applications are solicited annually and ranked for funding approval. For more information or to find a training session near you, contact Jim Eckenrode at the district office at 696-0877 X 5

## Erosion Control and NPDES Permitting

The Blair County Conservation District is delegated duties related to public information, plan review, permit issuance, complaint handling and inspections associated with earth disturbance activities in Blair County. Workload and the flow of plan/permit submittals remains steady—which is an indicator of the stronger economy.

All earthmoving activities are required to have a written Erosion Control Plan. Many local

municipalities have within their ordinances, the requirement of plan review and approval. Sites involving a disturbance of 1 (one) acre or more are required to attain an NPDES permit prior to commencement of the project. NPDES permits are authorized and/or processed thru the District.

In 2016, 15 General and 6 Individual Permits (located in High Quality Watersheds) were processed. In addition, 66 Erosion and Sediment

(E&S) Control Plans were reviewed and approved based on the State's Chapter 92 and 102 Regulations.

48 complaints were logged and 84 inspections were conducted at earth moving sites.

The District sponsored training for the local municipalities related to Agricultural E&S and Permitting, Nutrient Management and conflict resolution and also hosted a training for the regulated community in November at the Altoona Grand.

*"....Sites of one acre or more require an NPDES permit...."*



**Rain Garden at Bellwood-Antis Municipal Park**

## Funds for Stormwater Projects

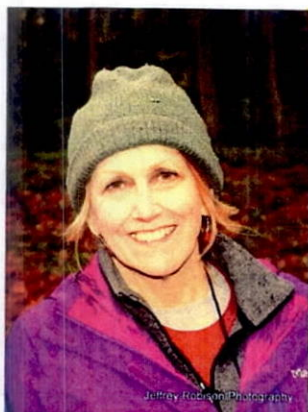
The Blair District is working with our local Municipalities, to install "green Infrastructure" projects across the county. Funding was received from the National Fish and Wildlife Federation (NFWF) and The Alliance for the Chesapeake Bay. Whenever possible we enlist the assistance of students for planting at the sites! Construction and Designs were completed for numerous sites across the County.

Three projects were completed in 2016 to include:

City of Altoona—BG High School and Bishop Guilfoyle Students;  
Antis Township/Bellwood Borough—Municipal Park and B-A FFA Students;  
Tyrone Borough—Tyrone VFW and Grier School Students.

Additional sites are planned throughout the County, all to include the local municipalities, schools and community organizations as appropriate. The overall goal of the project is to increase the knowledge base of all within Blair County related to Green Stormwater Alternatives.





Jody Wallace transitioned into an Urban Ag Specialist!

## Changing of the Guard....

After 10 years of exceptional service, Jody Wallace aka the "Creature Teacher" chose to retire as our Environmental Educator at the end of 2016.

Jody built an effective network and a plethora of programs to serve the educational needs of the young and older alike. In fact, each year since 2012, the district's **Environmental Education Programs has reached over 10,000 people each and every year!**

Fittingly so....Jody was recognized by the WISE (Women Involved in Scholarship and Empowerment) Women of Blair County in 2016 in

the Education Category. Countless staff, interns and associates have been bettered by her tutelage. She is not totally out of our picture yet...Jody agreed to consult as our Urban Ag Specialist through 2017 working with farmers, government officials and citizens to create opportunities for urban agriculture and local food production and distribution.

Don't worry....Jody had the opportunity to work with **Suzanne Black, hired in June to take over duties with the title of Conservation Educator.**

Suzanne will host many of the established programs, contests and field trips; as well as create some of her own. We are excited to see where Suzanne will lead us in programming and in the development of the District's Conservation Park at Bedford Street.. Join us in welcoming Suzanne and give her a call to schedule programs at 696-0877 x 5.



Suzanne Black

"The District Board has been honoring Outstanding Conservation Efforts since 1968..."

## Outstanding Conservationist Award

Jack and Renee Krider of Highland Meadows, LLC just outside of Martinsburg were honored with the 2016 Outstanding Conservation Farm Award. The Kriders represent a "non-typical" farming operation but their conservation efforts and innovative practices typify Outstanding Conservation. The Kriders' have always had a strong sustainability ethic, growing and using food and products that were made at home.

Conservation Service to receive technical and financial assistance to install a Reverse Osmosis System, which has dramatically decreased the energy consumption needed to reduce tree sap to maple syrup. The Kriders' currently have about 20 acres of trees and 5 miles of gathering lines with hopes to increase production to 200 gallons of syrup annually.

If that is not enough....the Kriders' maintain 6 hives of Honey Bees for the production of Honey, Honey Comb and Beeswax; run approximately 200 pasture raised non-soy Meat Chickens annually; and maintain an orchard of Heirloom Apple trees (several of which were grafted from the original orchard on the farm since the late 1800's). Conservation and Sustainability are always at the forefront of their management decisions!



They desired to expand and increase efficiency with their Maple Sugaring Operation and contacted the USDA, Natural Resources

More recently, the Kriders' have installed a 30 acre rotational grazing system, utilizing existing pastures and converting some marginal cropland into the grazing system for their 20 head of Scottish Highland cattle.

Left: Scottish Highland Cow and Calf on rotational grazed pasture at Highland Meadows, LLC

Right: Jack and Renee Krider





# Blair County Envirothon



**First Place Team  
"Red Maples"  
from Altoona  
Area High School**



**Third Place Team  
"Blue Spruce"  
also from  
AAHS**



**Central's  
"Bass  
Masters"  
took  
Second**

The 31st annual Blair County Envirothon Competition was held on April 26th at Legion Park. Our local event is co-sponsored by the Altoona Kiwanis Club. 16 teams from 7 school districts participated in 2016.

*"....Phase I  
Archeological  
Study  
completed  
with the  
determination  
that no further  
investigation is  
required"*

## What's Happening at Bedford Street....

So have you driven by the District's property at the intersection of Route 36 and Bedford Street lately....things are continuing to happen!

In 2016, we continued to develop our wetland resources by undertaking the restoration of approximately 1.5 acres of existing wetland located along the border of Rt. 36. The wetlands were overtaken primarily by reed canarygrass. The District entered a contract with BluAcre, LLC to chemically and mechanically remove the invasive species and replant the entire area with a wetland seed mix of native species. An old farm drainage ditch that separated the existing wetland from the adjacent created wetland and boardwalk area was closed to facilitate water flow to the created wetland site.

We will continue to monitor both sites to control the invasive species until the natives are established.



GAI Consulting, Homestead PA, completed a Phase I Archeological Study at the Property in 2016.

Although over 500 period artifacts and one pre-historic artifact were identified, the site was deemed to have low potential to contribute important information to the historic and pre-historic utilization of the area.

No further archeological investigations were recommended for the site and we were cleared to proceed with our projects as planned.

The District made application for both the Individual NPDES Permit for Construction Activities and the Chapter 106 Permit for work in the Floodplain in 2016.

Application was made to the DCNR Riparian Buffer Grant program to install a series of buffer demonstration areas along the Beaverdam Branch of the Juniata River that borders the northern edge of the property. Six different buffer types are proposed to include: Edible, Floriculture, Pollinator, AgroForest, Wildlife Grass and Wooded Wildlife areas are proposed.

Application was also made for a DEP Environmental Education Grant to develop site specific lesson plans related to the natural and planned environmental features at the site.

Construction of the Conservation Park could begin as soon as 2017—Keep Watching!





**Resource Conservation Since 1966**

1407 Blair Street  
Hollidaysburg, PA 16648  
Phone: 814-696-0877 ext. 5  
Fax: 814-696-9981  
E-mail: [bcd@blairconservationdistrict.org](mailto:bcd@blairconservationdistrict.org)  
[www.blairconservationdistrict.org](http://www.blairconservationdistrict.org)



### Conservation District Board

Harold Bailey, Chairman  
Blaine Smith, Vice-Chairman  
Jim Biddle, Secretary/Treasurer  
John Morrow  
Alan Gearhart  
Gary Long  
Commissioner Terry Tomassetti

### Conservation District Staff

Donna Fisher, District Manager  
Margaret Angle, District Clerk  
Rich Huether, Ag Conservation Specialist  
Jim Eckenrode, Watershed Specialist  
Beth Futrick, Ombudsman  
Chris Myers, Resource Conservation Technician  
Diane Thomas, Resource Conservation Technician  
Suzanne Black, Conservation Education Specialist  
also in contract with the district  
Jody Wallace, a.k.a. "the Creature Teacher"  
as the Urban Ag Specialist

## Conservation District Funding

The Blair County Conservation District receives funding from several sources to include: Local, State and Federal funds through grants and contracts.

Annual allocations are received from the Blair County Commissioners through the General Fund and the PA Departments of Agriculture and Environmental Protection.

Most recently, conservation districts across the Commonwealth have been written into the Act 13 Legislation related to the Marcellus Shale Development in Pennsylvania. Impact fees are collected from the industry and a portion of those funds are distributed to the Conservation Districts through both the Public Utilities Commission (PUC) and the State Conservation Commission (SCC).

PUC funds in 2016 were received as a block grant in the amount of \$57,159 per conservation district across the Commonwealth. The PUC funds in Blair County continue to be allocated for the development of the District Property on Bedford Street.

The SCC funds are distributed in base amounts plus a calculated portion of Unconventional Well Counts per county. Blair County received a base amount of \$76,730 plus an additional \$15,389 for our existing well activity. These funds are utilized to cost share salaries and administrative expenses.

It is important to note that the SCC base amount is not necessarily "new funds" but rather funds that were available previously through line item allocations in the commonwealth budget and are included in the state program funds.

### 2016 General Fund Budget

#### **Expenses:**

Salaries/Benefits	\$338,888
Rent/Insurances/Audit	\$ 30,550
Operating Expenses	\$ 83,700
Payment to County	\$ 33,000
Project Grants	\$100,000
<b>Total Expenses</b>	<b>\$586,138</b>

#### **Revenues:**

Beginning Balance	\$ 68,848
County Commissioners	\$134,522
E&S/NPDES Fees	\$ 20,000
State Program Funds	\$259,119
Grants	\$100,000
Misc. Revenue Sources	\$ 3,649
<b>Total Revenues</b>	<b>\$586,138</b>



March 10, 2016 – March 9, 2017

**Public Education and Outreach:**

The Staff of the Blair County Conservation District continue to distribute information electronically to over 50 developers and consultants on matters related to Erosion and Sediment Pollution Control and all aspects of the E&S/NPDES permitting to include post-construction stormwater, as pertinent.

District Staff maintains the Blair County Conservation District webpage to include topics specific to MS4 education and requirements. The website may be found at [www.blairconservationdistrict.org](http://www.blairconservationdistrict.org). In addition, the district published an Annual Report (copy attached), also available on the website and distributed electronically, outlining the highlights of 2016. Many of the items below were highlighted in that report, to include a short description of the NFWF Grant that we are administering with and through the MS4 Workgroup.

April 2016 was the eleventh annual "Earth Day/Water Festival at the Mall" by the Conservation District and many of its partners. The 2016 event was again held in Logan Valley Mall with co-sponsorship by the Altoona Water Authority and coordination by the Intermunicipal Relations Committee. Water quality and water quantity events and displays were held for students and adults (estimated at 200 children and 150 adult contacts) during the day-long event. In addition, "Do Your Part, Be Water Smart" was the theme for the Poster Contest. Art work by participants (just under 200) was displayed for the week preceding the event at the mall location.

Again for 2016 was participation in the Annual Sheetz Earth/Environment Day (June 3) Event hosted at the Sheetz Distribution Center. Nearly 550 adults participated in the day-long event where the district exhibited information on the Conservation Park proposed within the Borough of Hollidaysburg, to include Green Infrastructure and Innovative Stormwater Techniques. Of particular interest was the description of the Sheetz Corporation mitigated wetland at the District's site. Approximately 400 tree seedlings were distributed for planting across the county.

Standardized "School Water Festival" programs were held during the 2016-2017 school year. 678 Blair County 4<sup>th</sup> graders in 8 different schools (2 – Altoona; 1 Bellwood-Antis; 4 – Hollidaysburg; 1 – Tyrone School) were educated with emphasis on Water Quality, Quantity and Land Use as related to the Pennsylvania State Standards for Academics. The district continued with a 5<sup>th</sup> and 6<sup>th</sup> Grade program to involve students in an outdoor adventure related to Wildlife, Woods and Wetlands. Just over 530 students and teachers participated from 8 schools (5 – Altoona; 2 – Hollidaysburg; 1 – Tyrone) were taken for a daylong adventure at a local industrial manufacturing company's natural area and taught about Woodland, Meadow and Wetland habitat and hydrology; watershed impacts by humans; the differences and values of wetlands.

We continued a successful program that was developed to promote the idea of Riparian Forest Buffers and their benefits to environmental health and expanded the planting opportunities for Student Involvement in establishing Green Stormwater Practices. The District was also involved in promoting the School Riparian Buffer Program nationally. District staff presented in a Webinar hosted by the National Association of Conservation District in June of 2016 explaining our process to date with 83 districts and agencies across the country participating in the hour-long event. A municipal staff workshop attended by 22 individuals was presented to discuss effective establishment and maintenance of Riparian Buffers in April of 2016.



The district continues to utilize the DVD entitled Trees Beside the Water – a 15 minute introduction to stream hydrology and the importance of buffers to stream stability and health. The DVD is now posted for individual viewing 24/7 on the District Website.

The district continued to promote homeowner stormwater alternatives through rain barrel, rain garden and healthy lawn workshops as requested. Three such workshops were held in 2016-17 specific to rain gardens and water quality.

The district continues to support the website in cooperation with the MS4 Workgroup specific to Blair County Stormwater. Found at [www.cleanblairwater.org](http://www.cleanblairwater.org) the site highlights municipal and audience specific information related to Stormwater, Water Quality, Pollution Reporting and Opportunities for involvement. A "stormwater project" subpage is being developed so that individuals will be able to locate and visit constructed stormwater BMP sites both digitally and "in person"!

As mentioned above, the District continued our school involvement with the planting of construction projects related Green Infrastructure through a NFWF Grant. Students from the Bellwood Antis MS and HS (116 students) established a Rain Garden and Bioswale at the BA Municipal Park. Bishop Guilfoyle students completed an infiltration trench and Rain Garden at their High School in Altoona and finally students from Grier School planted a Rain Garden at the Tyrone VFW. The planting day follows a series of in classroom exercises related to Stormwater and Water Quality. In addition, approximately 15 students from the Altoona Area High School were recruited to participate in a planting project at the Blair County 911 Center as part of a County Grant from the Green Streets, Green Jobs, Green Town Program. Students were instructed on green infrastructure and planted two parking lot islands.

Education related to NPDES permitting and the MS4 Program was emphasized by two events hosted or with presentations by the Blair County Conservation District. The first was a presentation at the Blair County Township Officials Spring Convention held in April and the second was a Chapter 102/NPDES Permitting for the Development Community workshop presented by DEP staff to 65 engineers and agencies in November of 2016.

Finally, public outreach and education is at the forefront as the District continues to develop our 15 acres of property within the Borough of Hollidaysburg. The Master Plan includes the use of alternative stormwater BMP's and will include an extensive educational component.

### **Water Quality Monitoring:**

Finally, the district continues to utilize 16 dedicated volunteers and partnering with the Altoona Water Authority and municipalities to conduct monthly water sampling of 32 sites on 21 Blair County streams. They also performed spring and fall macroinvertebrate assessments and quarterly flow data. Specific to MS4 area, the district and partners are collecting data related to baseline water quality on 10 sites within the MS4 area. By locating the sites above and below the MS4 identified area it is hoped that we may begin to monitor increases in water quality as MS4 Municipalities implement BMP's. Two additional permanent and continuing monitoring stations were implemented in 2016 for a total of four locations specific to the MS4 area as part of the district NFWF grant and they are operational.

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Antis Twp  
5/20/14

# Altoona Mirror

## Antis gets grant for rain garden

More than \$17,000 in grant funds has been awarded to Antis Township to cover the installation of a rain garden at a community park, Township Manager Lucas Martsolf said.

The rain garden – a bio-retention pond that uses plant growth to limit pollution carried by stormwater runoff – is to be installed at Bellwood-Antis Community Park near Bellwood's North Third Street Extension.

Martsolf said the garden is being installed as part of a township effort to become compliant with federal Environmental Protection Agency and state Department of Environmental Protection Municipal Separate Storm Sewer System mandates.

An estimate prepared by Stiffler McGraw engineers listed the total projected cost of materials, including soil, mulch, stones and plants, at \$17,270.

The National Fish and Wildlife Fund grant is to cover all material costs, as well as the cost of engineering and labor. The grant was secured by the Blair County Conservation District, Martsolf said.

Township workers are to install the garden, Martsolf said, explaining the installation is to serve as an educational component so those workers become more familiar with MS4 projects.

The rain garden upgrade at the park is separate from improvements listed within a comprehensive parks and recreation plan, which township and Bellwood Borough officials have been working on since at least the beginning of the year.

An email from Martsolf said the installation should begin soon, but it did not provide a specific timeline.




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Antis Twp

06/07/14

# Altoona Mirror

## New gov't agency about to be born

Eleven local governmental bodies are planning to create a council of governments to help each other handle increasingly strict environmental regulations on stormwater and avoid fines for noncompliance.

Blair County, the city of Altoona, Hollidaysburg, Bellwood and Duncansville boroughs and Logan, Allegheny, Antis, Blair, Frankstown and Freedom townships will form an Intergovernmental Stormwater Committee by passing ordinances in the coming months that will bind them to the committee for two years.

The formal organization will be successor to the existing, less formal Blair County Municipal Separate Storm Sewer System (MS4) Working Group, which has been trying to come to grips for several years with changing stormwater regulations from the U.S. Environmental Protection Agency and the state Department of Environmental Protection.

The proposed new committee is likely to morph again within a few years into a full-blown authority to handle what observers see as a new utility, similar to sanitary sewer service, only for handling stormwater.

On Monday, at a strategic planning meeting, City Council provided informal authorization for solicitor Larry Clapper to draft a COG ordinance to be presented at council's July meeting.

"This is a good first step," said Clapper, who likened the proposed new organization to other local councils of government like the Intermunicipal Relations Committee and the Central Blair Recreation and Parks Commission.

Also on Monday, Logan Township published a public notice declaring its intention to discuss and possibly enact a similar ordinance at a meeting this month.

The requirements for MS4 compliance have evolved slowly and fitfully over the last couple of decades, but pressure has been growing, officials said.

The local municipalities have been working on a 2013 permit that is good until 2018. But for their next five-year permit, they will need to reduce their Total Maximum Daily Load of runoff sediment, nitrogen and phosphorus by 10 percent, according to Nate Kissell, the city's public works director.

The new group will contract with the Blair County Conservation District for the same kind of services the district is providing to the working group and will hire a coordinator at an estimated total cost of \$100,000 a year, according to officials at the city meeting.

The city's share would be \$36,000, officials said.

Municipalities in the committee will need to contribute to the cost of operations based on a formula that takes account of population, amount of space where buildings, parking lots, etc. prevent water from soaking into the soil and mileage of impaired streams, according to City Manager Marla Marcinko.

Based on its current permit, the working group has been focusing on public education, encouraging public involvement, elimination of illicit discharges, control of construction site runoff, control of runoff after construction is complete and "good housekeeping," Kissell said.

The new organization will be expected to construct a variety of "best management practices" – like rain gardens, stream bank buffers, pervious parking lots that allow water to soak through and other means of filtering runoff by allowing it to percolate into the ground, rather than run directly into streams.

Ideally, if cost were no object, those projects could total \$2.7 million, according to Councilman Michael Haire.

But the committee's efforts would probably be geared toward doing the minimum required to comply and avoid fines, he said.

"We have to realistically balance (the work) with taxes," Haire said.

"With MS4, you're damned if you do and damned if you don't," Haire said. "The fines that would be levied for non-compliance would kill us."

Grants may be available, officials said.

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Antis Twp

6/28/16

# Altoona Mirror

## Logan joins MS4 group

The Logan Township supervisors have unwillingly agreed to join a Blair County-based council of governments that will help municipal participants comply with evolving federal regulations for purifying stormwater before it reaches local streams and rivers.

Logan's fee for joining the Intergovernmental Stormwater Committee with Blair County, the city of Altoona, Hollidaysburg, Bellwood and Duncansville boroughs and Allegheny, Antis, Blair, Frankstown and Freedom townships will be \$17,600 a year, based on a formula that accounts for miles of stream, impervious surface area and population, according to Township Manager Tim Brown.

"I reluctantly voted yes" on the two-year commitment, said Supervisor Dave Rhoa during the township's post-meeting comment period. "This whole thing has been cooked up by engineers and consultants."

The fees will cover the cost of hiring an administrator from the Blair County Conservation District to oversee Municipal Separate Storm Water activities for the COG, which will take over from the current, less formal Blair County MS4 Working Group.

The cost is expected to be about \$100,000 a year, according to information from a recent City Council meeting.

The money the township will pay for projects like rain gardens would be better returned to the taxpayers or used for paving roads or buying needed equipment, Rhoa said.

When paid for MS4, it “might as well flow with the stormwater right into Chesapeake Bay,” Rhoa added, playing on one of the chief environmental concerns that MS4 regulations are designed to assuage.

There is “zero” benefit to the Logan taxpayers, Rhoa said.

“It’s a scam,” he added.

The township has been warned, however, that non-compliance could mean fines, so “our hands are tied,” Rhoa said.

“I echo (Rhoa),” said Supervisor Ryan Rimbeck.

“It’s an unfunded mandate,” said Supervisor Ed Frontino.

But the township needs to “keep out of the crosshairs,” Frontino said.

Mirror Staff Writer William Kibler is at 949-7038.

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Arms Twp

8-14-16

# Altoona Mirror

## City of Altoona joins MS4 council of governments

Altoona became the ninth of 11 municipalities that comprise the Blair County Municipal Separate Storm Water (MS4) Working Group to agree to join a council of governments.

The effort is in response to expectations of increasing regulations on rain runoff.

Among City Council members, Mayor Matt Pacifico and Councilman Michael Haire dissented, saying they would have preferred the municipalities create an authority, rather than a council of governments.

Officials previously have said it's likely the municipalities will need to form an authority eventually to obtain the funds necessary to identify, design and build "green infrastructure" to comply with increasingly strict and detailed federal regulations.

It's better to set up that authority now, so the municipalities are ready to go in 2018 when another "permit cycle" adds to the current modest requirements, Pacifico said.

Some council members have expressed concern that it would be easier for the city to withdraw from an authority than from a council of governments like the new Intergovernmental Stormwater Committee, said Councilman Dave Butterbaugh.

It would require unanimous agreement among all the municipalities for any of them to get out, according to information Haire said he received from a state representative.

Some council members want an exit option in case Altoona ends up paying an unfairly high percentage of the costs, Butterbaugh said.

Butterbaugh isn't worried, though, because the municipalities have cooperated well in the MS4 working group.

"There's no reason to believe that the good working relationship won't continue," he said.

If somehow it doesn't, the city can get out of the COG after only two years, based on the agreement the municipalities are signing, Butterbaugh said, citing solicitor Larry Clapper.

Each municipality will contribute funds to the committee based on a formula that takes into account the amount of that municipality's impervious surface, stream length and population, said Cassandra Schmick, planning director for Logan Township and coordinator for the working group.

Continued fairness – to all the municipalities – will be key, according to Butterbaugh.

Bellwood and Hollidaysburg boroughs and Antis, Blair, Freedom, Frankstown and Logan townships, as well as Blair County, have joined the council of governments.

Membership ordinances are on the agenda for Duncansville Borough on Aug. 31 and for Allegheny Township Sept. 8, Schmick said.

MS4 requirements are designed to divert storm runoff so it percolates into soil and becomes part of groundwater. That prevents an excess of warm water that raises stream temperatures, which is bad for game fish, while preventing that water from introducing sediment, oil, trash and other contaminants into streams.

Various permutations of rain gardens are among the preferred green infrastructure to combat this.

Cooperation with other municipalities will allow for flexibility with projects, Haire said.

The city doesn't have much excess room, but it can propose infrastructure in other municipalities that have plenty of room for the improvement of streams whose water flows into the city, he said.

Any improvements made in any municipality will generate credit for all the municipalities, he said.

The committee will begin functioning in January, according to Schmick, who initiated the formation of the working group five years ago after a presentation by the state Department of Environmental Protection on the projected increase in regulatory attention for stormwater.

"What do you think about us all working together?" Schmick recalled saying. "If each municipality (has) to do it on our own, it (will) be so much work."

Between now and the end of the year, each municipality's governing body will appoint a member and an alternate to the committee, Schmick said.

Municipal engineers – staff or consulting – will probably be part of the mix at meetings, she said.

The contributions from the municipalities will enable the committee to hire a staffer whose duties will include the coordination she has been doing for the working group, Schmick said.

Mirror Staff Writer William Kibler is at 949-7038.

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Antis Twp

9/26/16

# Altoona Mirror

## Pacifico records no vote to stormwater ordinance

Among all votes cast Wednesday by five City Council members to adopt five planning ordinances that were recodified for ease of use, the only “no” vote was Mayor Matt Pacifico’s – for an ordinance concerning stormwater.

It was a protest vote – and Pacifico wasn’t the only one who would have liked to cast it.

The stormwater ordinance reflects increasingly strict regulations from the federal Environmental Protection Agency and in turn, the state Department of Environmental Protection, to prevent storm runoff from carrying sediment and other contaminants like oil, antifreeze, nitrogen, phosphorus and trash into streams.

Generally, local governments will need to pay for complying with the regulations by creating rain gardens and other “best management practices” that send runoff percolating through the ground.

Altoona has joined with 10 other Blair County municipalities in a council of governments – the Inter-governmental Stormwater Committee – that starting in January will seek to comply with the evolving requirements.

“I don’t agree with the unfunded mandate,” said Pacifico, on being asked after the meeting why he dissented.

“I don’t like it (either),” said Councilman Dave Butterbaugh.

But if the city would refuse to cooperate, it would risk big fines, like those imposed on Pennsylvania municipalities to the east.

"If we don't do it, we would get hammered," Butterbaugh said. "For hundreds of thousands of dollars."

He didn't say it, but council members have said it before: even after paying those fines, those dissenting municipalities still needed to comply with the requirements.

"We have to do it," said Councilman Michael Haire. "We're damned if we do and damned if we don't."

Mirror Staff Writer William Kibler is at 949-7038.

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1/28/17

# Altoona Mirror

## Council overseeing stormwater rules delays hiring coordinator

The council of governments now directing the efforts of 11 Blair County municipalities to comply with federal stormwater rules has postponed hiring a coordinator, so the organization can pay for a plan needed by September.

Last August, when the council was forming the Intergovernmental Stormwater Committee, it planned for a \$100,000 budget based on contributions from the municipalities, which included \$75,000 to hire a coordinator.

But the need to create a "*pollution reduction plan*" that lays out best practices for managing stormwater in the member municipalities, will delay hiring of a coordinator. That plan must be created so the individual municipalities can renew their separate storm sewer permits, which expire in September, said engineer Tom Levine, who represents Frankstown Township and Duncansville on the ISC board.

The ISC hopes to contract with the Center for Watershed Protection of Ellicott City, Md., to do the pollution reduction plan for \$57,000, which means there won't be enough money to employ a coordinator now, Levine and Cassandra Schmick, planning director for Logan Township and coordinator of the working group, said.

The organization will probably postpone the coordinator hiring until April — with a start time in July, Levine predicted.

But if the group fails to get a \$35,000 state grant, it may postpone the hiring even further, Schmick said. The committee will probably learn the status of the grant in about a month.

The pollution reduction plan, which CWP should complete by Aug. 23, will lay out what the municipalities need to do to meet pollution reduction requirements over the next 20 years, he said.

One example of the kind of project the plan will call for is an infiltration trench built recently by Bishop Guilfoyle Catholic High School and the city between the school's parking lot and soccer field, Levine said.

Water bearing oil, antifreeze and litter runs off the parking lot into the trench, where the soil captures the litter and plants neutralize the other pollutants, Levine said.

Mapping of stormwater systems will be another component of the pollution reduction plan, according to Schmick.

The municipalities are doing the mapping individually, she said. The ones that can — like Logan Township — are using GPS technology to create electronic maps, she said, but hand-drawn maps are acceptable to the environmental authorities.

Mirror Staff Writer William Kibler is at 949-7038.

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ANTS TWP

2/23/17

# Altoona Mirror

## PennDOT works on stormwater

### Department wants to pair up with others to reduce stream pollution

PennDOT wants to work with local governments to reduce stormwater pollution of streams.

The effort is in keeping with the increasingly stringent requirements of the Municipal Separate Storm Sewer System program, initiated by the federal government and enforced by state environmental agencies, including the Department of Environmental Protection.

*"We're looking for areas where we can partner with municipalities and counties,"* said Vince Greenland, PennDOT district executive for design, at a recent meeting of the Intergovernmental Stormwater Committee, which represents 11 Blair County municipalities.

PennDOT could partner with local governments by incorporating *"best management practices"* into road projects — building them near roadways being improved, according to Richard Heineman, chief of the strategic environmental management section of PennDOT.

Rain gardens, infiltration basins and stream mitigations are among the practices that PennDOT could consider, Heineman said.

PennDOT will be looking to do projects *"where it makes sense,"* Heineman said. Building those might involve a little additional work for a bulldozer or a grader that is already on site.

It shouldn't add much to the cost of highway projects or maintenance, he said.

*"We're glad to know they're willing,"* said Cassandra Schmick, Logan Township planning director and co-coordinator of the ISC for the time being.

PennDOT is doing MS4 work at Canoe Creek, where there is a major intersection project, Greenland said.

Both PennDOT and the municipalities could get credit for such work with DEP, indicated Jamie Chestney, an environmental planner for PennDOT District 9.

PennDOT and the municipalities are doing the MS4 work under state-issued permits.

PennDOT's current permit, which didn't require very much, began in July 2011 and expired in July 2016. The renewals — the municipal renewals are due in September — will demand greater commitment to the program, officials have said.

PennDOT submitted information for the permit renewal in January 2016 but hasn't heard back yet from DEP, according to Heineman.

*"I'm not rushing them,"* he said, generating a chuckle from the local group.

Mirror Staff Writer William Kibler is at 949-7038.

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# Stormwater consultants visit area

By William Kibler

bkibler@altoonamirror.com

In one sense, the consultants who traveled around the Altoona area on behalf of the Intergovernmental Stormwater Committee last week were like real estate investors scouting for houses to rehabilitate.

An investor generally doesn't want a house that's totally derelict because it would be too expensive to fix or a perfect house because what could he add that would increase its sale price.

Rather, he seeks a house that needs modest improvements that would jack up value far beyond the cost of his investment.

Bryan Seipp and Mike Hickman — employees of the Center for Watershed Protection — were looking for detention ponds that with modest and inexpensive changes would significantly reduce the volume and increase the purity of water discharge to nearby streams.

Seipp, a watershed manager, and Hickman, a water resources designer, came to Altoona to meet with the technical subcommittee of the IGSC to launch the consultant's work on a Pollution Reduction Plan for the local agency — a requirement for IGSC to help its Municipal Stormwater Sewer System (MSWSS) operating permit mandated by the state.

Altoona has a good reputation but has been gathering momentum in the last few years, as the federal Environmental Protection Agency pushes increasingly stringent regulations through state agencies like the Pennsylvania

**Consultants were looking not only for older detention ponds with a large upside that can be retrofitted, but also eroding stream banks the Intergovernmental Stormwater Committee can restore**

Department of Environmental Protection to keep sediment, nutrients, vehicle-related pollutants, trash and other contaminants out of streams and bodies of water like the Chesapeake Bay.

The consultants were looking not only for older detention ponds with a large upside that the IGSC can retrofit, but also eroding stream banks the agency can restore, stretches of stream where the agency can restore natural flood plains and outfall pipes where the agency can protect against washout.

Those are the kinds of projects where a modest investment can bring the biggest return in reduction of sediments washing into streams, thus earning the most "credit" from DEP, Seipp and Hickman told the subcommittee.

DEP is expecting the 11 IGSC municipalities to reduce their stormwater pollutants by 10 percent, the quality for the permit that's due for renewal in September, Hickman said.

On their second day in town, the Logan Township employees who are mapping the township's storm sewer system, Seipp and Hickman found one late-1990s detention pond in the Camelot Woods area that is a candidate for retrofit.

Detention ponds in that era were designed to slow the entry of runoff into streams but not to purify that runoff or reduce its volume, according to Seipp.

Low-cost measures like creating pools in the inlets and the basin itself for sediment to settle, planting appropriate vegetation to filter the water passing through and elongation of the water's path and adjustment in the size and height of drain holes to encourage percolation would combine to purify the runoff and reduce its volume, which in turn would reduce the damage the outflow can do upon leaving the pond, according to Seipp and Hickman.

Seipp and Hickman found another pond on the grounds of the Sheetz convenience store on Sixth Avenue near the North Eighth Street Bridge, built much more recently, that would not make sense to retrofit.

That pond doubles as a filter bed, and nearly conforms with the latest standards, so that a significant improvement would yield only a marginal improvement, Seipp said.

The consultants and the IGSC also plan to fish for projects in PennDOT's pool of bridge rehabilitation and replacement work.

A look at the nearby banks of streams over

which those bridges pass will likely find areas where restoration could greatly reduce stream bank erosion, earning both PennDOT and the municipalities credit, according to Hickman.

PennDOT would pay for such work, as it could fall within the scope of the bridge projects, he said.

On the advice of Hickman, the committee will seek permission from DEP to handle the entire IGSC area as a unit, to eliminate the need for each municipality to obtain a 10 percent reduction of runoff, while also eliminating the need for the engineering analyses to prove those individual municipal reductions.

York County and an area in southeastern Pennsylvania involving the Darby and Cobbs Creek watersheds have obtained such permission from DEP, Hickman said.

It makes no sense to require individual municipalities to achieve those small-scale successes, when overall success in the larger area is the main objective, Hickman said.

The committee also needs to consider whether to claim or exclude areas covered by separate permits, like the Ivy side campus of Penn State Altoona, Hickman said.

"Parsing out" such areas would absolve the committee of responsibility for them but could be a logistical headache, Hickman said.

Conversely, including those areas could create an opportunity for projects that could earn the committee credit, he said.

Mirror Staff Writer William Kibler is at 949-7038.

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## **MCM #2 APPENDIX**

- 1. MCM #2 Project Plan**
- 2. MCM #2 Attachments**

## **MCM#2: Public Involvement / Participation**

### **Antis Township 2016-2017**

#### **BMP 1**

Open meetings held at the Antis Township Supervisors and Planning Commission continue to encourage public input in the decision-making process (es) of land development activities related to stormwater management. MS4 Program updates are periodically presented at the Township Supervisors Meetings. Other opportunities are outlined as part of the partnership with the BCCD as described in the MOU referred to in MCM #1.

Periodic reports are available to the public via the website, municipal office or by US Postal Service upon request.

The Township continues open and routine communication with watershed groups and environmental advisory committees and organizations operating in proximity to the Permittees regulated MS4s /receiving waters. Antis Townships contact list developed in MCM #1 BMP #2 includes contact information for appropriate groups.

#### **BMP 2**

Pennsylvania Municipalities Planning Code requires adequate opportunity for public review, feedback and input for any ordinance proposed for adoption by Antis Township. Public comments are always considered prior to adoption of any ordinance.

#### **BMP 3**

Antis Township meetings allow for public comment on any subject, including stormwater related issues. As stated in MCM #2, public review is always encouraged at Supervisors and planning commission meetings. The Intergovernmental Stormwater Committee, formerly known as Blair County MS4 Work Group, holds county-wide meetings to discuss the SWMP for all Permittees. All target audience groups listed as part of MCM#1 are invited and encouraged to attend these meetings which will also be advertised on the community websites and local newspapers. Other interested volunteer groups such as Boy Scouts, local schools (class projects) and church groups are encouraged to participate.

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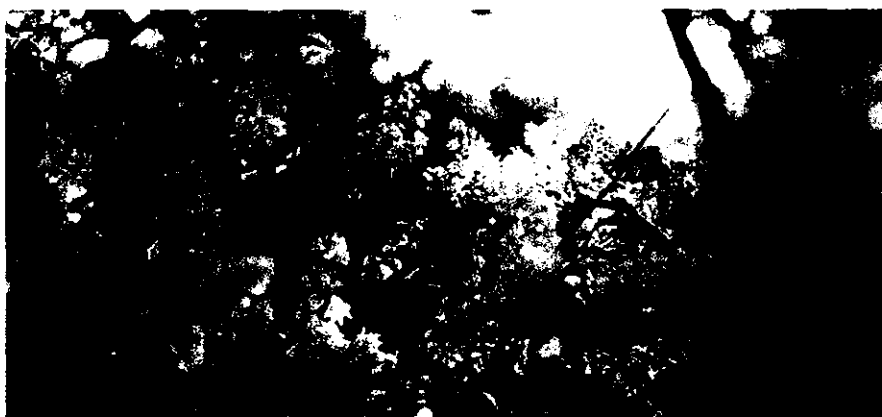
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# ANTIS TOWNSHIP NEWS

Antis Township news, notices, newsletters, and eNews are all available in the news section. View the archive for past news, or use the search button above to search for specific topics throughout the entire site, including archives.

## SUMMER 2017 NEWSLETTER | 10-MAY-2017

To view a copy of the Summer 2017 Newsletter please [Click Here](#) (/pdf/community/useful-documents/Sum..

## TOWNSHIP OFFICES CLOSED | 14-MAR-2017

Township office closed today March 14, 2017 due to inclement weather...



## SUBSCRIBE

### SPECIAL MEETING OF THE BOARD OF SUPERVISORS | 13-DEC-2016

A special meeting of the Board of Supervisors has been scheduled for Tuesday December 13, 2016 at 9:..

### 2017 ADOPTED BUDGET | 01-DEC-2016

At the December 1, Board of Supervisors Meeting the Board adopted the 2017 Budget. To view a co..

### FALL LEAF PICK UP TO START ON MONDAY | 17-OCT-2016

Fall leaf collection is to start on Monday October 17, 2016. Antis Township conducts a Fall Leaf co..

### TOWNSHIP LIFTS BURN BAN | 27-JUL-2016

On August 18, at 11:00am, the Antis Township Board of Supervisors lifted the current burn ban which ..

### PARKS AND RECREATION OPEN HOUSE | 12-JUL-2016

Bellwood Borough and Antis Township will host an open house Tuesday, July 12 to invite public input ..

### BOARD ADOPTS ORDINANCE TO ADDRESS STORMWATER REGULATIONS | 07-JUN-2016

At the June 2, Board of Supervisors Meeting the Board adopted ordinance 1-2016 approving the creatio..

### TOWNSHIP ENTERS INTO AGREEMENT WITH AMERICAN LEGAL PUBLISHING CORPORATION | 02-JUN-2016

At the June 2, Board of Supervisors meeting the Board approved to enter into contract with American ..

### GREEN INFRASTRUCTURE GRANT SECURED | 20-MAY-2016

Antis Township has been awarded grant funds that were secured by the Blair County Conservation Distr..

### LITTLE JUNIATA RIVER CLEAN UP | 16-APR-2016

Mark your calendar....April 16th, 2016. We will meet at 9 AM at the Spruce Creek United Methodi..

### ANTIS TOWNSHIP SUBMITS GRANTS TO DCNR | 13-APR-2016

At the April 7, Board of Supervisors Meeting the Board authorized Township Staff to submit two g..

### CLEAN AND GREEN PROGRAM | 03-MAR-2016

We would also like to remind residents that residences of Blair County are qualified, meeting certai..

### MS4 PUBLIC HEARING | 03-MAR-2016

At last nights Antis Township Board of Supervisors meeting residents were provided with an annua..

### PENNSYLVANIA RESIDENTS URGED TO TEST HOMES FOR RADON | 07-JAN-2016

FOR IMMEDIATE RELEASE Jan. 5, 2016 Pennsylvania Residents Urged to Test Homes for Radon Harrisburg, ..

### TOWNSHIP AWARDED ADDITIONAL GRANT FUNDING FROM THE COMMONWEALTH | 04-JAN-2016

Antis Township has been awarded \$9,570 in matching funds from the Pennsylvania Department of Conserv..

### TOWNSHIP HIRES CONSULTING GROUP TO GIS TOWNSHIP STORMWATER CONVEYANCES | 04-DEC-2015

At the December 3, Board of Supervisors meeting the Board authorized the Township Manager to enter i..

### TOWNSHIP PLACES ORDER FOR ENVIRONMENTAL PRODUCTS | 04-DEC-2015

At the December 3, Board of Supervisors meeting the Board authorized the Township Manager to place a..

### BOARD OF SUPERVISORS APPROVE FUNDING FOR STORMWATER IMPROVEMENTS | 05-NOV-2015

At the November 5, Board of Supervisors Meeting the Board approved Community Development Block G..

### TRICK OR TREAT NIGHT IS SCHEDULED | 29-OCT-2015

The Antis Township Board of Supervisors announced Trick or Treat Night is scheduled for Thursday, Oc..

### BUDGET MEETING SCHEDULED | 26-OCT-2015

At the October 2, 2015 Board of Supervisors meeting the Board scheduled a public meeting to review t..

### PUBLIC HEARING (CDBG) | 21-OCT-2015

ANTIS TOWNSHIP COMMUNITY DEVELOPMENT BLOCK GRANT The Antis Township Supervisors intend to subm..

### PENELEC HAS SCHEDULED A POWER OUTAGE | 06-OCT-2015

Penelec notified Antis Township that approximately 200 customers will be affected by a scheduled..

### BOARD OF SUPERVISORS APPROVE THE INSTALLATION OF NEW HYDRANTS | 01-OCT-2015

At the October 1, Board of Supervisors meeting the Board authorized the Township Manager to work wit..

### NORTH 9TH STREET BRIDGE REPLACEMENT PROJECT IS SCHEDULED FOR SEPTEMBER 28 2015 | 28-SEP-2015

Ventura Construction is currently creating a safe stabilized stone roadway on North 7th Street for t..

### TOWNSHIP BOARD OF SUPERVISORS AUTHORIZES FUNDING FOR STORMWATER ACTIVITIES | 03-SEP-2015

At the September 3, Board of Supervisors meeting the Board authorized the Township Treasurer to tran..

### ANTIS TOWNSHIP 2015 STREET PAVING SCHEDULE | 11-AUG-2015

The following are tentative paving dates for specific streets: August 11- Hunter Road, Campbell..

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# PARKS & RECREATION PUBLIC MEETING

**6:00pm—Tuesday  
July 12, 2016**



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### **Questions? For more information, contact:**

Amy Wiles, AICP, Mackin (project consultant)  
[awiles@mackinengineering.com](mailto:awiles@mackinengineering.com) or 412.788.0472

Lucas Martsolf, Antis Township Manager  
[LMartsolf@antistownship.org](mailto:LMartsolf@antistownship.org) or 814.742.7361



**BELLWOOD-ANTIS PARKS AND RECREATION PLAN**

**INTERGOVERNMENTAL STORMWATER COMMITTEE (ISC)  
MEETING AGENDA  
THURSDAY, FEBURARY 16, 2017, 2:00PM**

**CALL TO ORDER**

**PLEDGE OF ALLEGIANCE TO THE FLAG**

**ADDITIONS TO THE AGENDA**

**PUBLIC COMMENT RELATED TO AGENDA ITEMS**

**APPROVAL OF MINUTES – January 19, 2017**

**FINANCIAL REPORT**

**OLD BUSINESS**

1. **DCED Municipal Assistance Program Grant Status**
2. **DEP Stormwater Grant Submission** – which municipalities are submitting grants?
3. **Billboard** – Carwash poster, CleanBlairWater.org, February 27<sup>th</sup>-March 3<sup>rd</sup>
4. **Update of Public Works Training – Handling Spills** – from the garage to the yard, and beyond..., February 22<sup>nd</sup>, am and pm session, Presentation by New Pig on Spill Cleanup

**NEW BUSINESS**

1. **Appointment of Technical Committee** – after the last meeting, Tom Levine brought up the idea of appointing a technical committee that would work with the Center for Watershed protection on the PRP. This technical committee could consist of the municipal staff and engineers who would work closely with the CWP on the details and technical information needed to prepare the PRP. In the end the technical committee would make a recommendation to the ISC on whether or not to adopt / submit the PRP to DEP. If the group wishes to move forward, the technical committee could be appointed and in place before the 2/28 meeting with CWP. Suggested members of the technical committee would be: Teddie Krietz, Brian Shura, Chris Sawyer, Tom Levine, Cassandra Schmick, Mark Criste, Nate Kissell, and a rep from Morris Knowles.
2. **PRP Plan Kick off Meeting with Center for Watershed Protection** – The Center for Watershed Protection will be here for a meeting on February 28<sup>th</sup> at 9am. The following is information from Bryan Selpp at CWP. You will need to review this to be prepared for the meeting on the 28th.

*We are looking forward to seeing you in a few weeks. Since we already have a lot of data from the first project we really mostly need people to come prepared with the following items:*

- *List of projects that have been completed since the last PRP (Location, practice type, total drainage area, impervious drainage area).*

- *List of new potential project sites that have materialized since the last PRP*
- *Any new or useful stream corridor information*
- *Existing BMP data (Location, practice type, total drainage area, impervious drainage area).*
- *Storm sewer infrastructure data (inlets, pipes, outfalls)*

***Any existing BMP location and storm sewer data we can get in advance of the meeting is greatly appreciated and will facilitate an efficient meeting.***

*We will bring a computer so if people can bring this information on thumb drives we can quickly download it.*

*I think the plan is to fully utilize the day and do some limited field work after the meeting, so if there are some potential project sites, existing BMPs, or MS4 drainage area question marks that we should look at while we are there people should come prepared to provide us with what information is available and to possibly visit the site later in the day (or provide instructions for how to access the site).*

- 3. Letters of Support for DEP Stormwater Grants** – Discuss who is applying for a DEP stormwater grant and who wants a Letter of Support from the ISC. Authorize staff to prepare, and the Chair to sign, letters of support for the grants.

## **GENERAL PUBLIC COMMENT**

## **ADJOURNMENT**

INTERGOVERNMENTAL STORMWATER COMMITTEE  
MEETING MINUTES  
JANUARY 19, 2017

**VOTING MEMBERS PRESENT:**

Silke Morrison, Allegheny Township  
Marla Marcinko, City of Altoona  
Lucas Martsolf, Antis Township  
Jennifer Eger, Bellwood Borough  
Helen Schmitt, County of Blair  
Ed Silvetti, Blair Township  
Tom Levine, Duncansville Borough  
and Frankstown Township  
Ed Bender, Freedom Township  
Rick Pope, Hollidaysburg Borough  
Tim Brown, Logan Township

**ALTERNATE MEMBERS AND OTHERS PRESENT:**  
Janice Karmon, Jim Gehret, Cassandra Schmick, Mark Criste, Nate Kissel, Jamie Chestney,  
Theodora Kreitz, Brian Shura, Matt Kambic, Donna Fisher, Atty. Larry Clapper, Bill Kibler

**PLEDE OF ALLEGIANCE**

**CALL TO ORDER:** by Larry Clapper, Esquire at 2:04 PM

**ELECTION OF OFFICERS**

**Chair**

**\*\*Motion by Marcinko, seconded by Silvetti to nominate Tim Brown as Chairman. Motion carried unanimously.**

**\*\*Motion by Levine, seconded by Pope to close nominations. Motion carried unanimously.**

**\*\*Motion by Pope, seconded by Marcinko to appoint Tim Brown, Logan Township as Committee Chairman. Motion carried unanimously.**

**Vice-Chair**

**\*\*Motion by Martsolf, seconded by Bender to nominate Ed Silvetti as Vice-Chair. Motion carried unanimously.**

**\*\*Motion by Marcinko, seconded by Bender to nominate Lucas Martsolf as Vice-Chair. Motion carried unanimously.**

**\*\*Motion by Marcinko, seconded by Eger to appoint Lucas Martsolf, Antis Township as Vice-Chair. Motion carried unanimously.**

**Secretary**

**\*\*Motion by Schmitt, seconded by Silvetti to nominate Silke Morrison as Secretary. Motion carried unanimously.**



**\*\*Motion be Silvetti, seconded by Schmitt to appoint Silke Morrison, Allegheny Township as Secretary. Motion carried unanimously.**

**REVIEW OF MEETING DATES AND TIMES**

Listing of meeting dates for 2017 appear on the agenda. The 2017 meeting listing was advertised in it's entirety for 2017 as the Third Thursday of each month at 2 PM at the Logan Township Building. Advertisement appeared in the January 9, 2017 edition of the Altoona Mirror.

**AUTHORIZE CHAIR TO SIGN STORMWATER COORDINATOR AGREEMENT BETWEEN THE ISC AND THE BLAIR COUNTY CONSERVATION DISTRICT**  
Agreement was prepared by Atty. Clapper for the ISC and has been reviewed with mutually agreeable edits prepared by the Atty. Karn, Conservation District Solicitor.

**\*\*Motion by Levine, seconded by Marcinko to authorize Chairman Brown to sign the Stormwater Coordinator Agreement. Motion carried unanimously.**

**FINANACIAL REPORT**

Donna Fisher provided the group with a financial report including the Municipal Payments received to date. Balance of funds received from 7 municipalities is \$32,770. The Blair County Conservation District is in the process of setting up a separate Stormwater Account at First National Bank for these funds. No payments have been made to date.

**DCED MUNICIAPL ASSISTANCE PROGRAM (MAP) GRANT STATUS**

Fisher reported that several emails have been exchanged with DCED, with the latest being January 17, 2017. She was informed that grants may be released "soon". No word to date.

**MS4 COORDINATOR STATUS**

Fisher reported that the position has not been advertised and that she was awaiting instruction from the group as to the use of funds for the coordinator versus the PRP preparation. Discussion was held related to the individual municipalities budgets for Stormwater other than the Coordinator Agreement contribution.

**\*\*Motion by Levine, seconded by Martsof to table hiring the MS4 Coordinator. Motion carried unanimously.**

**POLLUTION REDUCTION PLAN (PRP) PROPOSAL FROM CENTER FOR WATERSHED PROTECTION**

Proposal as submitted from the Center for Watershed Protection was distributed by Cassandra Schmick. Mr. Hickman form the Center can be available via telephone if needed during discussion. The proposed fee for the completion of the Pollution Reduction Plan to be utilized by the group in the 2017 MS4 Permit Applications is listed as \$52,508.93 without using "MapShed" or \$57,108.93 utilizing "MapShed". DEP will and has yet to confirm if "MapShed" will be required. Levin suggested edits related to completion schedule and terms of payment. Kreitz questioned if the proposal excluded PennDOT features. It was confirmed that the proposed calculations would not exclude PennDOT features. It was confirmed by Hickman that the project would be completed by August 3, 2017.

**\*\*Motion by Levine, seconded by Martsof to have Atty. Clapper review the proposal and suggest edits to the ISC via email. Motion carried unanimously.**

**\*\*Motion to by Levine, seconded by Martsof to recess meeting. Motion withdrawn.**

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**\*\*Motion by Marcinko, seconded by Silvetti to proceed with the execution of the PRP Proposal between the ISC and the Center for Watershed Protection contingent upon review and approval by Atty. Clapper. Motion carried unanimously.**

#### **WORKING WITH PENNDOT**

Jamie Chestney, PennDOT representative discussed potential for partnerships with the ISC and reported that their MS4 permit renewal has been submitted. The ISC members requested a copy of the PennDOT submittal if possible. ISC to consider a subcommittee to continue discussion with PennDOT.

#### **PUBLIC WORKS TRAINING**

Training for municipal staff is scheduled for March 8, 2017. A subcommittee is meeting on January 24<sup>th</sup> to discuss training options with a representative of New Pig.

#### **BILLBOARD TOPIC**

The 2016 Billboard was specific to the Clean Blair Water website address. Previously EPA posters were utilized.

#### **REPORT OF DCNR GREEN INFRASTRUCTURE WEBINAR**

Teddie Kreitz reported that she participated in the webinar and that the program will be posted online. Using DCNR funds to leverage additional funds was encouraged.

#### **LOCAL STORMWATER BMP IMPLEMENTATION PROGRAM**

DEP Grant application was distributed prior to the meeting. Application Deadline is March 3, 2017. Individual municipalities are encouraged to apply and the ISC could apply for funding of projects proposed by the group. Suggestions of additional phases of the City of Altoona and Duncansville Borough sites initiated by the Alliance of the Chesapeake Bay be considered, as well as the resubmittal of the Blair Township Pond Retrofit. Fisher will work on a draft proposal from the group.

#### **DIRT, GRAVEL AND LOW VOLUME ROAD GRANT ROUND**

Fisher distributed the 2017 Dirt, Gravel and Low Volume Road grant announcement. Application are due March 3, 2017. Any municipality with staff trained in Environmentally Sensitive Maintenance (ESM) within the last 5 years is eligible. A listing of 2017 training sites was also distributed. Stormwater components may be considered for payment using these funds.

#### **ADJOURNMENT**

**\*\*Motion by Levine, seconded by Martsolf to adjourn at 3 PM. Meeting adjourned.**

Blair County Conservation District - Stormwater Fund

2/10/2017

Opening Balance

\$ -

Check No.	Date	Description	Payment	Credit	Balance
	Pending	Allegheny Township - 1/4 Payment 2017	\$	3,260.00	\$ 3,260.00
	Pending	Frankstown Township - Full Payment 2017	\$	6,370.00	\$ 9,630.00
	Pending	Freedom Township - Full Payment 2017	\$	2,560.00	\$ 12,190.00
	Pending	Blair Township - Full Payment 2017	\$	5,870.00	\$ 18,060.00
	Pending	Antis Township - Full Payment 2017	\$	5,220.00	\$ 23,280.00
	Pending	Borough of Bellwood - Full Payment 2017	\$	1,630.00	\$ 24,910.00
	Pending	Borough of Hollidaysburg - Full Payment 2017	\$	7,860.00	\$ 32,770.00
	Pending	County of Blair - Full Payment 2017	\$	560.00	\$ 33,330.00
	Pending	Logan Township - Full Payment 2017	\$	17,660.00	\$ 50,990.00
	Pending	City of Altoona - Full Payment 2017	\$	37,270.00	\$ 88,260.00
	Pending	Altoona Mirror - Advertise 2017 Meetings	\$ 88.21		\$ 88,171.79

2/10

INTERGOVERNMENTAL STORMWATER COMMITTEE  
MEETING MINUTES  
FEBRUARY 17, 2017

**VOTING MEMBERS PRESENT:** Marla Marcinko, City of Altoona  
Jennifer Eger, Bellwood Borough  
Helen Schmitt, County of Blair  
Ed Silvetti, Blair Township  
Tom Levine, Duncansville Borough  
and Frankstown Township  
Ed Bender, Freedom Township  
Rick Pope, Hollidaysburg Borough  
Tim Brown, Logan Township

**ALTERNATE MEMBERS AND OTHERS PRESENT:**

Nate Kissel, Jim Gehret, Betty Robertson, Cassandra Schmick, Mark Criste, Jamie Chestney, Richard Heineman, Vince Greenland, Theodora Kreitz, Brian Shura, Stephanie Walters, Chris Sawyer, Matt Kambic, Donna Fisher, Bill Kibler

**CALL TO ORDER:** by Chairman Brown at 2:02 PM

**PLEDE OF ALLEGIANCE**

**ADDITIONS TO THE AGENDA**

PennDOT Presentation

**PUBLIC COMMENT RELATED TO AGENDA ITEMS - None**

**PennDOT PRESENTATION**

Vince Greenland, PennDOT District 9-0 ADE, Jamie Chestney, District 9-0 and Richard Heineman, PennDOT Central Office were on hand to discuss their MS4 Permit and activities. Mr. Greenland announced that Jamie Chestney has been named as the "MS4 representative" for District 9-0. He also stated that PennDOT is still operating under their old MS4 Permit. Mr. Heineman commented that PennDOT has applied for a statewide Individual Permit. The application was submitted in January of 2016 – no word on status to date. They are hoping to meet most the PRP requirements through their scheduled road projects. He also discussed the partnership between PennDOT and the MS4 area in York County. York County has a map of all proposed projects and PennDOT can consider that project list if they need mitigation areas. PennDOT would do the construction of the BMP and the O&M would be the responsibility of the partner. York County did not "parce out" PennDOT roads. PennDOT does not have a GIS layer with Storm Sewer Mapping. However, they do have roadways, cross pipes and outfalls as points on a map for Blair County, which they can provide. It was suggested that PennDOT develops and hosts training for Good Housekeeping for their staff and would be willing to share in that as well as other MCM's when possible. They stated that all of their salt storage is under roof and they are able to monitor application rates by tracking trucks. They are developing an MS4 FAQ document to be placed on the PennDOT website.

**APPROVAL OF MINUTES – January 19, 2017**

**\*\*Motion by Marcinko, seconded by Levine to approve the minutes of the January 19, 2017 minutes with amendments. Motion carried unanimously.**

**FINANCIAL REPORT**

Donna Fisher provided the group with a financial report including the Municipal Payments received to date. Balance of funds received from 10 municipalities is \$88,260. Duncansville

Borough payment is in process. An additional bill for \$50 to Kegerreis Outdoor for the billboard will be paid. Pending balance will be \$88,121.79.

**\*\*Motion by Levine, seconded by Marcinko to file the financial report for audit. Motion carried unanimously.**

#### **OLD BUSINESS:**

##### **DCED MUNICIPAL ASSISTANCE PROGRAM (MAP) GRANT STATUS**

Fisher distributed a copy of the letter received from DCED stating that the District has been awarded \$30,100. That is the full amount that was requested in the application. She will develop a timeline and spending scenario for the hiring of the MS4 Coordinator based on funds available for the next meeting.

##### **DEP STORMWATER GRANT SUBMISSIONS**

Blair Township will re-submit their application for a Stormwater Pond Retrofit; Duncansville Borough intends to submit for additional work at the Borough Park; City of Altoona will submit for a rain garden at St. Therese; and Logan Township will submit for a rain garden and buffer planting at Leopold Park.

##### **BILLBOARD**

The 2017 Billboard will utilize the EPA generated "Car Wash" poster with the [cleanblairwater.org](http://cleanblairwater.org) website address. It is scheduled to run from February 20 to March 3, 2017.

##### **PUBLIC WORKS TRAINING UPDATE**

Training for municipal staff is scheduled for February 22, 2017, with presentation and sponsorship by New Pig. A morning and afternoon session is scheduled with half classroom and half as demonstration in the Logan Township Garage.

#### **NEW BUSINESS:**

##### **APPOINT TECHNICAL SUBCOMMITTEE**

It was discussed to appoint a Technical Subcommittee to facilitate the Pollution Reduction Plan creation with the Center for Watershed Protection. Suggested members include: Teddie Kreitz, Brian Shura, Chris Sawyer, Tom Levine, Cassandra Schmick, Mark Criste, Nate Kissel and a representative of Morris Knowles. Ms. Eger, on behalf of Bellwood Borough, requested (due to costs associated with travel for attendance) that participation by Morris Knowles be limited to phone conferences or email consultations.

**\*\*Motion by Pope, seconded by Marcinko to appoint the subcommittee as named with the consideration that a representative from Morris Knowles may participate via phone and/or email. Motion carried unanimously**

##### **POLLUTION REDUCTION PLAN (PRP) KICK-OFF MEETING**

The Center for Watershed Protection has proposed a kick-off meeting for February 28 at 9 AM at the Logan Township Office. Schmick reviewed the listing of materials and updates requested by the Center for that meeting so they can begin the process quickly. A second in-county meeting is proposed for March 28<sup>th</sup> at 9 AM also at Logan Township. Fisher will advertise both meetings.

##### **LETTERS OF SUPPORT FOR DEP STORMWATER GRANTS**

Fisher to prepare letters of support for the Chairman's signature for the 4 projects proposed by Blair and Logan Townships, Duncansville Borough, and the City of Altoona.

**\*\*Motion by Levine, seconded by Marcinko to prepare and sign letters of support for the DEP Grants. Motion carried unanimously**

**GENERAL COMMENTS:**

Kibler requested clarification behind applying for grants as individual municipalities rather than as a group. It was stated that for this grant the ISC was not considered an eligible applicant nor was the Blair County Conservation District on behalf of the group. Group collaboration will be considered when appropriate.

**ADJOURNMENT**

**\*\*Motion by Silvetti, seconded by Marcinko to adjourn 2:38 PM.**

Antis Twp

1 of 3

INTERGOVERNMENTAL STORMWATER COMMITTEE  
MEETING MINUTES  
March 16, 2017

VOTING MEMBERS PRESENT: Silke Morrison, Allegheny Township  
Marla Marcinko, City of Altoona  
Lucas Martsolf, Antis Township  
Jennifer Eger, Bellwood Borough  
Helen Schmitt, County of Blair  
Ed Silvetti, Blair Township  
Ed Bender, Freedom Township  
Rick Pope, Hollidaysburg Borough  
Tim Brown, Logan Township

ALTERNATE MEMBERS AND OTHERS PRESENT:

Nate Kissel, Jim Gehret, Betty Robertson, Cassandra Schmick, Mark Criste, Vince Greenland,  
Theodora Kreitz, Brian Shura, Chris Sawyer, Donna Fisher, Bill Kibler

CALL TO ORDER: by Chairman Brown at 2:00 PM

PLEDGE OF ALLEGIANCE

ADDITIONS TO THE AGENDA

None

PUBLIC COMMENT RELATED TO AGENDA ITEMS - None

APPROVAL OF MINUTES – February 16, 2017

**\*\*Motion by Silvetti, seconded by Marcinko to approve the minutes of the January 19, 2017 minutes as presented. Martsolf abstained. Motion carried.**

FINANCIAL REPORT

All municipalities have made full or quarterly payments. Two outstanding bills (Altoona Mirror and Center for Watershed Protection) to be paid. Pending balance will be \$84,806.26.

**\*\*Motion by Marcinko, seconded by Pope to file the financial report for audit. Motion carried unanimously.**

OLD BUSINESS:

DCED MUNICIPAL ASSISTANCE PROGRAM (MAP) GRANT STATUS

Signed Contract returned to DCED from the Blair County Conservation District on March 3, 2017 for further processing.

STATUS OF MS4 COORDINATOR HIRING

Fisher provided a Stormwater Account Spending Scenario outlining current payments, expected receipts, obligations and proposed costs for the District to hire a coordinator effective July 3, 2017. The Job Description as prepared by the MS4 Workgroup was distributed for consideration.

**\*\*Motion by Schmitt, seconded by Marcinko to advertise for the hiring of the MS4 Coordinator position. Motion carried unanimously**

2/3

**UPDATE ON 2/28 MEETING WITH THE CWP**

Kreitz reported on the first meeting related to the 2017 Pollution Reduction Plan with Bryan Seipp and Mike Hickman from the Clean Water Partnership (CWP) in Blair County on February 28, 2017. Technical subcommittee met in office followed by field visits. Numerous smaller projects were identified; however, they will not provide nutrient and sediment reductions at a high level. Larger stream restoration projects if found will provide larger reductions. The plan will include many of the same sites identified in the original plan plus new sites as identified. CWP staff plan to come back to Blair County for field work in April and hope to schedule a conference call in conjunction with the April 20, 2017 ISC Meeting.

**STATUS OF MAPPING EFFORTS**

GIS data has been submitted to the CWP for Logan and Antis Townships, Bellwood and Hollidaysburg Boroughs and the City of Altoona. Blair Township has authorized the completion of mapping. Allegheny and Freedom Townships have yet to authorize work. County of Blair will be completed this spring.

**NEW BUSINESS:**

**CONFERENCE CALL WITH PENNDOT**

Call was initiated with Mike Hickman, CWP and Daryl St. Clair, Assistant to Deputy Secretary for PennDOT Central Office related to cooperation for MS4 Deliverables. Mr. St. Clair discussed the process as undertaken in York County. York County included the state roads in their MS4 Permit. PennDOT is participating with York County via their T.I.P. projects. Mr. Greenland, PennDOT District 9-0 offered to review current and future T.I.P. plans with the group and to work together when feasible. Consensus of the group was to have the Technical Subcommittee meet with PennDOT District 9-0 to start a dialogue.

**GENERAL PUBLIC COMMENTS:**

None

**ADJOURNMENT**

**\*\*Motion by Marcinko, seconded by Schmitt to adjourn 3:09 PM.**

Respectfully submitted by:



Donna J. Fisher, District Manager, BCCD



Conference Call with Daryl St. Clair, Assistant to the Deputy Secretary  
PennDOT as prepared by Mike Hickman

Bureau of Operations – Rich Heineman responsible for MS4

Vince Greenland at District 9 will be go to

York County is best in class for multi-municipal PRP

York County came to secretary – all munis are paying and PennDOT should too – DOT said yes

Not paying into equation but paying to participate through TIP projects as part of PennDOT connects

Blair is next to align with for multi-municipal PRP

There are munis that do not want to work with PennDOT but did not understand parsing. They recommend parsing PennDOT in this circumstance?

York county includes PennDOT land use into their analysis

Large construction projects would allow for TIP dollars to assist

DOT's PRP will say see York county for that portion of the state

EPA said that folks wanting to work with DOT can have extension to submit permit app

\$1M contract to go to vendors to report how much sediment can be removed for that price, and DOT can bank or apply credits - Better for economy of scale

Engineer hired to make contract, DEP to provide list of criteria

PennDOT wants out of design -other states do this-EPA providing example contracts from other states

York is widening I-83 to do environmental banking in MS4, 404, and 102 to let market place determine best environmental practices

Statewide P3 – vendor presented proposal for P3 to develop this-DOT wants to use to meet MS4 and Bay requirements-102-404-wetland-endangered species-P3 all in one

EPA is reviewing DOT permit currently

NPO is City of Altoona and Blair County Planning Commission; we need to meet with Vince to line up TIP projects (spatially and temporally) to determine strategy forward (including communication with DEP)

Double counting so that everyone would get = credit

Flexibility to go upstream of UA with "direct nexus" concept in verbal commitment from EPA if doing projects in a multi-municipal endeavor

2017 TIP covers 2017-2019 and the 2019 TIP covers 2019-2021

## **MCM #3 APPENDIX**

- 1. MCM #3 Project Plan – submitted with the 2015-2016 Annual Report**
- 2. MCM #3 Attachments**
  - a. 2016 IDD&E Outfall Inspection Data Sheets**

## **MCM#3: Illicit Discharge Detection and Elimination (IDD&E)**

### **Antis Township 2016-2017**

Antis Township verifies all outfalls and confirms that all outfalls have been located and mapped. Priority areas for dry weather field screening will include areas with older infrastructure, concentrations of higher-risk activities, or areas with histories of water pollution. Antis Township utilizes the EPA publication *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004)*, for guidance. The Township contracted to map the entire municipality's storm sewer collection system within the urbanized area utilizing GIS. Current mapping and data was provided to the Center for Watershed Protection for development of the PRP/TMDL plan which will be included with the 2018 NOI application. .

Antis Township plans to conduct dry weather screening of the priority areas identified in BMP #1 by visually inspecting the outfalls and sampling as necessary when flow is present. Outfalls will be inspected for color, turbidity, sheen, floating/submerged solids, adverse effects to environment, and odors. If the source of the discharge area cannot be easily identified and/or discharges show any indication of pollutants, then samples of the discharge will be collected for field/lab analysis of chemical and biological parameters such as pH, conductivity, E.Coli, fecal coliform, metals, suspended solids, dissolved solids, oils, ammonia, surfactants, chloride, fluoride, etc.

Outfall inspections shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheets excerpted from the *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004)*. Written documentation, regardless of the presence of dry weather flow, shall be maintained to justify a determination that an outfall is or isn't illicit. Actions will be taken to identify and eliminate any illicit flows. Any actions taken to identify and eliminate an illicit discharge shall also be documented. The Township did not have any illicit discharges reported during the reporting year.

The Subdivision & Land Development Ordinance, which fulfills the requirements for this MCM, has been implemented and is enforced during routine Township procedures. The Township requires all major Subdivision and Land Development plans be submitted for review by the Township Engineer with final approval given by the Township Supervisors. The Subdivision & Land Development Ordinance will be modified in accordance with the checklist provided by DEP.

The Township relies on the various activities included in the MOU with the BCCD to provide outreach about the detection and illumination of illicit discharges. The Township also plans to re-vamp procedure and written program to include updated mailing and various venues of material distribution to specific target audiences in the upcoming year. A detailed IDDE plan will be include with the 2018 NOI submission.

ANTIS TOWNSHIP MS4 OUTFALL TABLE

NO.	DESCRIPTION	OWNER	RECEIVING STREAM	LAT.	LONG.	SUBJECT TO TMDL? (Y/N)	Urbanized Area	Screening Date	IDP
044	INV. OUT 18" SLCPP	ANTIS TWP.	TRIBUTARY TO LITTLE JUNIATA RIVER	40°36'29.35"	78°20'21.54"	N	Y	2016	No
058	INV. OUT 18" RCP	PENNDOT	TRIBUTARY TO SANDY RUN	40°33'36.27"	78°20'27.63"	Y	Y	2016	No
059	INV. OUT 15" SLCPP	ANTIS TWP.	TRIBUTARY TO SANDY RUN	40°33'23.69"	78°20'20.43"	Y	Y	2016	No
060	PIPE CULVERT UNDER SR 220 (SIZE & TYPE UNKNOWN, OUTLET COVERED BY DEBRIS)	PENNDOT	SANDY RUN	40°33'25.07"	78°20'36.39"	Y	Y	2016	No
061	INV. OUT 24" CMP	PENNDOT	SANDY RUN	40°33'14.05"	78°20'43.07"	Y	Y	2016	No
062	INV. OUT 18" CMP	PENNDOT	RIGGLES GAP RUN	40°34'36.19"	78°21'20.62"	Y	Y	2016	No
063	INV. OUT 24" SLCPP	PENNDOT	RIGGLES GAP RUN	40°34'36.10"	78°21'19.58"	Y	Y	2016	No
064	INV. OUT 24" RCP	ANTIS TWP.	DISCHARGES TO PENNDOT 24" SLCPP ROADWAY CULVERT PIPE BEFORE REACHING RIGGLES GAP RUN	40°34'36.65"	78°21'19.84"	Y	N	2016	No
066	OPEN DITCH	PENNDOT	SANDY RUN	40°34'09.90"	78°21'03.33"	Y	N	2016	No

ALL OTHER OUTFALLS IDENTIFIED ON THE MAPS DO NOT RECEIVE FLOW FROM MS4 URBANIZED AREA

Note: Not all outfalls owned by others (e.g. PennDOT, private, etc.) are necessarily shown. Additional work is also required to verify all Township owned outfalls within the urbanized boundary have been mapped. IDP outfalls shall be screen at least annually.

Feasibility

019 x  
053 x(12) OUTFALLS x  
TO SCREEN

← X

X

X Flow  
← X NO FlowX  
X

X

X

X

X

X

X

X

X

X

X

Riggles

# OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

## Section 1: Background Data

Subwatershed:		Outfall ID: <u>015</u>	
Today's date: <u>8/11/16</u>		Time (Military): <u>1551</u>	
Investigators: <u>CDS</u>		Form completed by: <u>CAS</u>	
Temperature (°F): <u>84</u>	Rainfall (in.): Last 24 hours: <u>N</u> Last 48 hours: <u>N</u>		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input checked="" type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): <u>SHEETZ / PennDOT</u>			

## Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input checked="" type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>36"</u>  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

as

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely 
 ☐ Potential (presence of two or more indicators) 
 ☐ Suspect (one or more indicators with a severity of 3) 
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No          If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



# OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

## Section 1: Background Data

Subwatershed:		Outfall ID: <u>050</u>	
Today's date:		Time (Military): <u>see photo</u>	
Investigators:		Form completed by:	
Temperature (°F):	Rainfall (in.):	Last 24 hours:	Last 48 hours:
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

050

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
---

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No    If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed: <u>LITTLE TENNESSEE RIVER</u>		Outfall ID: <u>053</u>	
Today's date: <u>08/04/10</u>		Time (Military): <u>1218</u>	
Investigators: <u>C. SPANER</u>		Form completed by: <u>C. SPANER</u>	
Temperature (°F): <u>83</u>	Rainfall (in.): Last 24 hours: <u>NO</u> Last 48 hours: <u>NO</u>		
Latitude: _____	Longitude: _____	GPS Unit: _____	GPS LMK #: _____
Camera: <u>iPhone</u>		Photo #: _____	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input checked="" type="checkbox"/> <u>SLPP</u> <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24"</u>	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input checked="" type="checkbox"/> Flow #2	Flow depth	<u>1.5</u>	In	Tape measure
	Flow width	<u>1.5</u>	Ft, In	Tape measure
	Measured length	<u>1.5</u>	Ft, In	Tape measure
	Time of travel	<u>5</u>	S	Stop watch
	Temperature	<u>42.4</u>	°F	Thermometer
	pH	<u>7.28</u>	pH Units	Test strip/Probe
	Ammonia	<u>NA</u>	mg/L	Test strip

053

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

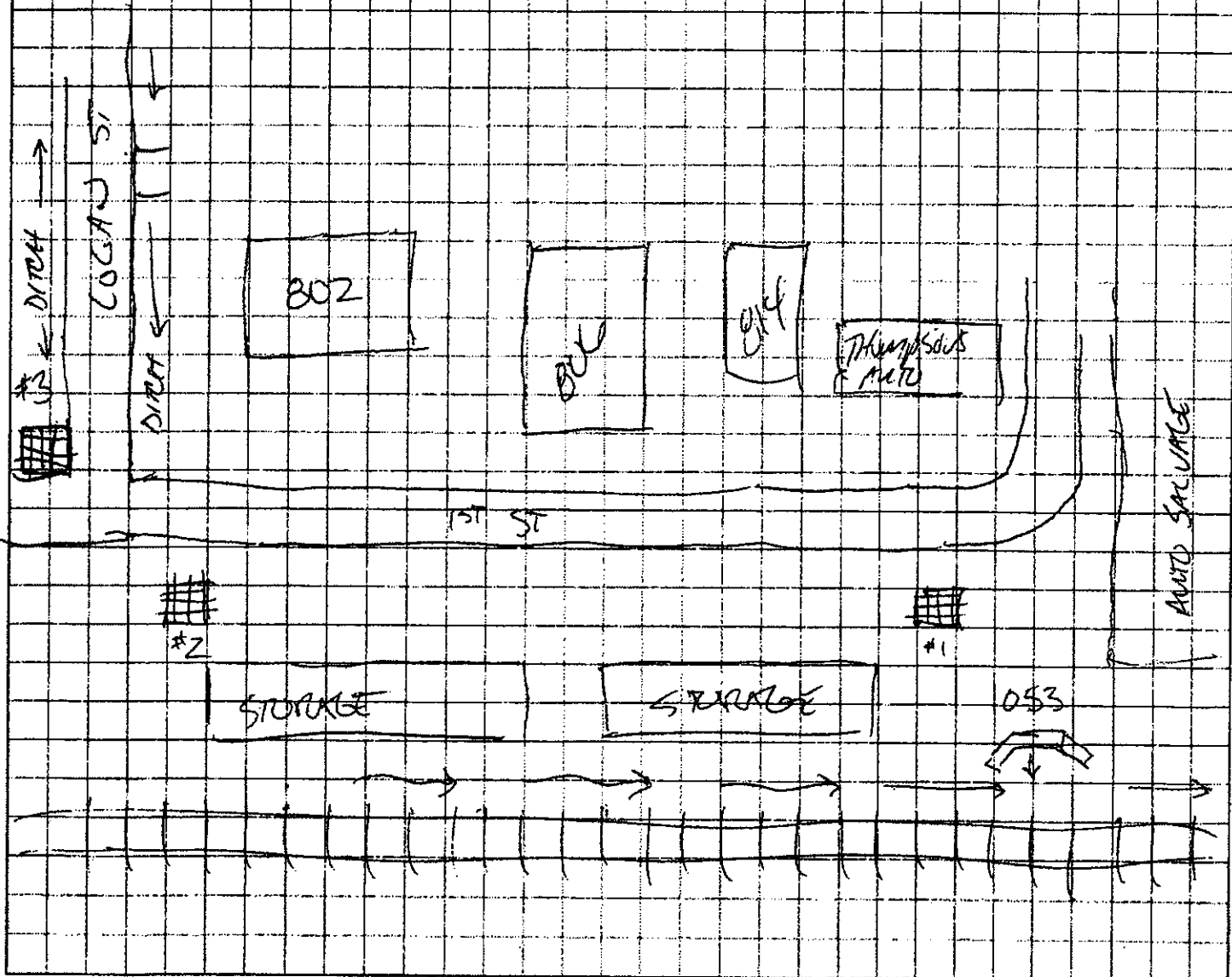


1731 N. JUNIATA STREET  
HOLLIDAYSBURG, PA 16648  
814.696.6280 PHONE  
888.696.6280 TOLL FREE  
STIFFLER-MCGRAW.COM

DATE: 8/4/14 TIME: 1247  
COMPANY: \_\_\_\_\_  
CONTACT: C. SAWYER  
PHONE/EMAIL: \_\_\_\_\_  
SUBJECT: ANTIS TWP MS4 SCREENING

### OUTFALL 053 OBSERVED FLOW

- INLET #1 → FLOW
- INLET #2 → LESS FLOW, OIL SPANGL ON GRATES
- INLET #3 → DRY
- ALL DITCHES IN THE VICINITY WERE DRY.



# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed: <u>Sandy Run</u>		Outfall ID: <u>058</u>	
Today's date: <u>08/04/16</u>		Time (Military): <u>1533</u>	
Investigators: <u>CS</u>		Form completed by: <u>CS</u>	
Temperature (°F): <u>84</u>	Rainfall (in.): Last 24 hours: <u>N</u> Last 48 hours: <u>N</u>		
Latitude:	Longitude:	GPS Unit: <u>Trimble</u>	GPS LMK #:
Camera: <u>Iphone</u>		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input checked="" type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): <u>origin on commercial warehouse</u>			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> PRCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



058

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely   
 ☐ Potential (presence of two or more indicators)   
 ☐ Suspect (one or more indicators with a severity of 3)   
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam		

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

None

# OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

## Section 1: Background Data

Subwatershed: <u>Sandy Run</u>		Outfall ID: <u>059</u>	
Today's date: <u>08/04/16</u>		Time (Military): <u>1459</u>	
Investigators: <u>Sawyer</u>		Form completed by: <u>Sawyer</u>	
Temperature (°F): <u>82</u>	Rainfall (in.): Last 24 hours: <u>N</u> Last 48 hours: <u>NO</u>		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: <u>iPhone</u>		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <u>SLCOP</u> <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>15"</u>  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream (applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

255

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely  
 ☐ Potential (presence of two or more indicators)  
 ☐ Suspect (one or more indicators with a severity of 3)  
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No           If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed: <u>Sandy Rvr</u>		Outfall ID: <u>CCO</u>	
Today's date: <u>8/4/16</u>		Time (Military): <u>1528</u>	
Investigators: <u>DSS</u>		Form completed by: <u>CS</u>	
Temperature (°F): <u>84</u>	Rainfall (in.): Last 24 hours: <u>20</u> Last 48 hours: <u>ND</u>		
Latitude: _____	Longitude: _____	GPS Unit: <u>TPLM BCE</u>	GPS LMK #: _____
Camera: <u>iPhone</u>		Photo #s: _____	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input checked="" type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ <u>- rock &amp; debris obstruction</u>	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
--

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No    If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed: <u>SANDY REEF</u>		Outfall ID: <u>OCel</u>	
Today's date: <u>8/6/14</u>		Time (Military): <u>1514</u>	
Investigators: <u>CDS</u>		Form completed by: <u>CDS</u>	
Temperature (°F): <u>84°</u>	Rainfall (in.): Last 24 hours: _____ Last 48 hours: _____		
Latitude: _____	Longitude: _____	GPS Unit: <u>Trimble</u>	GPS LMK #: _____
Camera: <u>iPhone</u>		Photo #s: _____	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input checked="" type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): <u>INLET ON NORTHEAST PROPERTY SIDE OF PENN DOT ROW</u>			

## **Section 2: Outfall Description** → SUBMERGED @ WATER LEVEL OF WETLAND

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> Steel <input checked="" type="checkbox"/> CMP <input type="checkbox"/> HDPE <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24"</u>	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input checked="" type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream (applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely   
 ☐ Potential (presence of two or more indicators)   
 ☐ Suspect (one or more indicators with a severity of 3)   
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No                        If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed:		Outfall ID: <u>062</u>	
Today's date: <u>06/04/16</u>		Time (Military): <u>1633</u>	
Investigators: <u>CSS</u>		Form completed by: <u>JD</u>	
Temperature (°F): <u>85</u>	Rainfall (in.): Last 24 hours: <u>N</u> Last 48 hours: <u>N</u>		
Latitude:	Longitude:	GPS Unit: <u>Trimble</u>	GPS LMK #:
Camera: <u>iPhone</u>		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> PVC <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____ <input checked="" type="checkbox"/> CMP <input type="checkbox"/> HDPE	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____ <input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18"</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If No, Skip to Section 5 <u>(WATER BOILED AT SCOUR)</u>		
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

062

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

 Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

 Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input checked="" type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely    ☐ Potential (presence of two or more indicators)    ☐ Suspect (one or more indicators with a severity of 3)    ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

none

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed:		Outfall ID: <u>063</u>	
Today's date: <u>8/4/14</u>		Time (Military): <u>1625</u>	
Investigators: <u>CBS</u>		Form completed by: <u>GDS</u>	
Temperature (°F): <u>85</u>	Rainfall (in.): Last 24 hours: <input checked="" type="checkbox"/> Last 48 hours: <u>N</u>		
Latitude:	Longitude:	GPS Unit: <u>TUMBLE</u>	GPS LMK #:
Camera:		Photo #:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <u>SLIPP</u> <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24"</u>  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, in	Tape measure
	Measured length	____' ____"	Ft, in	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	

063

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

 Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

 Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
--

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam		

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed:		Outfall ID: <u>064</u>	
Today's date: <u>8/4/16</u>		Time (Military): <u>1640</u>	
Investigators: <u>CDS</u>		Form completed by: <u>CDS</u>	
Temperature (°F): <u>85</u>	Rainfall (in.): Last 24 hours: <u>0</u>	Last 48 hours: <u>0</u>	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera: <u>iPhone</u>		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

*OUTFALL GOES TO #24" SLOPP INLET TO #063*

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24"</u>  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 3</i> <u>WATER LAYING STAGNANT</u>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely   
 ☐ Potential (presence of two or more indicators)   
 ☐ Suspect (one or more indicators with a severity of 3)   
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No    If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

# **OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

## **Section 1: Background Data**

Subwatershed: <u>Sandy Run</u>		Outfall ID: <u>006</u>	
Today's date: <u>8/4/16</u>		Time (Military): <u>1614</u>	
Investigators: <u>CDS</u>		Form completed by: <u>CDS</u>	
Temperature (°F): <u>84</u>	Rainfall (in.):	Last 24 hours: <u>✓</u>	Last 48 hours: <u>✓</u>
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:	Photo #s:		
Land Use in Drainage Area (Check all that apply): <input type="checkbox"/> Industrial <input type="checkbox"/> Open Space <input type="checkbox"/> Ultra-Urban Residential <input type="checkbox"/> Institutional <input type="checkbox"/> Suburban Residential Other: _____ <input type="checkbox"/> Commercial Known Industries: _____			
Notes (e.g., origin of outfall, if known):			

## **Section 2: Outfall Description**

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <del><input checked="" type="checkbox"/> Rip-rap</del> <input checked="" type="checkbox"/> Rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

## **Section 3: Quantitative Characterization**

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



066

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely   
 ☐ Potential (presence of two or more indicators)   
 ☐ Suspect (one or more indicators with a severity of 3)   
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No              If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

no se

LOCK ST / N. 7TH INTERSECTION @ NEW CUMBER

## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed:		Outfall ID:	
Today's date: 08/04/14		Time (Military): 1309	
Investigators: SAWER		Form completed by: SAWER	
Temperature (°F): 82°F	Rainfall (in.): Last 24 hours: NO Last 48 hours: NO		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

### Section 2: Outfall Description

18" SCLPP → RICE LINED CHANNEL → GLASS SWALE

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel SCLPP <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input checked="" type="checkbox"/> rip-rap <input checked="" type="checkbox"/> Other: GLASS	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream (applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Skip to Section 5			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☒ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely   
 ☐ Potential (presence of two or more indicators)   
 ☐ Suspect (one or more indicators with a severity of 3)   
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam		

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

## **MCM #4 APPENDIX**

- 1. MCM #4 Project Plan**
- 2. MCM #4 Attachments**
  - a. Blair County Conservation District Memorandum of Understanding**

## **MCM#3: Illicit Discharge Detection and Elimination (IDD&E)**

### **Antis Township**

**2016-2017**

Antis Township verifies all outfalls and confirms that all outfalls have been located and mapped. Priority areas for dry weather field screening will include areas with older infrastructure, concentrations of higher-risk activities, or areas with histories of water pollution. Antis Township utilizes the EPA publication *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004)*, for guidance. The Township contracted to map the entire municipality's storm sewer collection system within the urbanized area utilizing GIS. Current mapping and data was provided to the Center for Watershed Protection for development of the PRP/TMDL plan which will be included with the 2018 NOI application. .

Antis Township plans to conduct dry weather screening of the priority areas identified in BMP #1 by visually inspecting the outfalls and sampling as necessary when flow is present. Outfalls will be inspected for color, turbidity, sheen, floating/submerged solids, adverse effects to environment, and odors. If the source of the discharge area cannot be easily identified and/or discharges show any indication of pollutants, then samples of the discharge will be collected for field/lab analysis of chemical and biological parameters such as pH, conductivity, E.Coli, fecal coliform, metals, suspended solids, dissolved solids, oils, ammonia, surfactants, chloride, fluoride, etc.

Outfall inspections shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheets excerpted from the *Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004)*. Written documentation, regardless of the presence of dry weather flow, shall be maintained to justify a determination that an outfall is or isn't illicit. Actions will be taken to identify and eliminate any illicit flows. Any actions taken to identify and eliminate an illicit discharge shall also be documented. The Township did not have any illicit discharges reported during the reporting year.

The Subdivision & Land Development Ordinance, which fulfills the requirements for this MCM, has been implemented and is enforced during routine Township procedures. The Township requires all major Subdivision and Land Development plans be submitted for review by the Township Engineer with final approval given by the Township Supervisors. The Subdivision & Land Development Ordinance will be modified in accordance with the checklist provided by DEP.

The Township relies on the various activities included in the MOU with the BCCD to provide outreach about the detection and illumination of illicit discharges. The Township also plans to re-vamp procedure and written program to include updated mailing and various venues of material distribution to specific target audiences in the upcoming year. A detailed IDDE plan will be include with the 2018 NOI submission.

## **MCM#4: Construction Site Stormwater Runoff Control**

**Antis Township**

**2016-2017**

Antis Township has chosen to rely on DEP's statewide program for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements and BMP's under MCM #4. A Memorandum of Understanding (MOU) has been signed by Antis Township and the Blair County Conservation District. The MOU spells out the responsibilities of the Conservation District under MCM #4 which includes definitions of the roles and responsibilities involved with the program. The Conservation District preforms regular inspections of all active construction sites locations within the MS4 and forwards copies of inspections and violation notices to the Township. Antis Township also addresses construction site runoff in their Subdivision and Land Development Ordinance.

## **MEMORANDUM OF UNDERSTANDING**

**Between the**

**Blair County Conservation District  
(hereinafter sometimes referred to as "District")  
And**

**Antis Township  
(hereinafter sometimes referred to as "Municipality")**

### **STATEMENT OF PURPOSE**

This Memorandum made and executed this Second day of August, 2012, has been prepared jointly and agreed upon by each party, the same parties intending to be legally bound hereby, for the following purposes to the extent applicable:

To serve as a joint commitment by the signatory parties to control accelerated erosion and to minimize sediment pollution to the waters of the Commonwealth which may result from the conduct of earthmoving activities in Antis Township.

To serve as a basis for stating the role of each party in administering the provisions of Antis Township's Subdivision and Land Development Ordinance (#2-2011), Erosion and Sediment Control Ordinance # 3-2011, and Stormwater Management Ordinance (#4-2011) as amended from time to time.

- I. In carrying out the intent of this memorandum, the Blair County Conservation District (District) shall:**
  - A. Receive all Stormwater Management and Erosion and Sediment control plans (E&S Plan) as required under Ordinances ( #3-2011, #4-2011) and complete an initial review of the Stormwater Management and E&S Plans within 45 calendar days of its receipt. Any subsequent reviews of Stormwater Management and E&S Plan submissions (revisions) will be completed within 30 calendar days of receipt.**
  - B. Within ten (10) working days of completion of review, notify in writing, the consultant, the applicant, and the municipality of all Stormwater Management and E&S Plan approvals, deficiencies, and all determinations that an Stormwater Management or E&S Plan cannot be approved because of inadequate information and/or a failure of the applicant to develop a Stormwater Management and E&S Plan in compliance with the provisions of the ordinance and in compliance with Chapter 102.**
  - C. Upon request, provide all applicants with a Department of Environmental Protection (DEP) Erosion and Sediment Pollution Control Program Manual and related forms, worksheets, checklists, etc. necessary to successfully prepare an E&S Plan, NPDES Permit and Post-Construction Stormwater Plan.**
  - D. In accordance with a routine inspection schedule contained in the ordinance, and/or upon the request of the municipality, and /or upon the receipt of request from a third**



party, inspect ongoing earth disturbance projects and complete a standard DEP site inspection report. In conjunction with this responsibility, the District shall:

1. Advise the municipality of all third party complaints within 10 calendar days of their receipt.
  2. Provide a copy of all inspection reports to the affected responsible party (ies) and municipality within 10 calendar days of the inspection.
- B. Serve as the repository for all E&S Plans, NPDES Permits, complaints, inspection reports, correspondence, etc that involve earth disturbance activities. All such information shall be contained in a filing system which shall be available for inspection by the municipal officials for a time frame that is consistent with the DEP Records Retention Policy.
- F. Commit the necessary staff time, and provide all information necessary to assist the municipality in conducting enforcement proceedings as specified in Ordinance # 3-2011.
- G. As part of and as stated in a Delegation Agreement with the DEP, the District shall administer and implement the Commonwealth's Erosion, Sediment, and Stormwater Control Program and through the Delegation with DEP and this MOU shall assist Antis Township in maintaining compliance with: Minimum Control Measures (MCM) #4; #5 (BMP #1, #2 and #3) of Antis Township's NPDES Municipal Separate Stormsewer System (MS4) permit;
- H. Assist, as staffing allows, Antis Township in maintaining compliance with Minimum Control Measures (MCM) #1; #2 and #6 of the municipalities MS4 Permit.
- I. Annually, prepare and send to the municipality a summary of District activities related to MS4 MCM's.
- J. Conduct inspections in response to complaints regarding agricultural earth disturbance activities, including agricultural plowing and tilling or animal heavy use areas. Copies of the inspection report will be supplied to the municipality within ten (10) days of completion.
- K. Upon receiving a request from the municipal officials, and after appropriate municipal representatives have received the required training, the District will provide technical assistance and financial support, to the limit of its allocation approved by the State Conservation Commission, for projects qualifying for the Dirt and Gravel Roads Program. The District will provide the municipality with this service by-way-of an agreement with the municipality.
- L. As part of a Delegation Agreement with the State Conservation Commission, the District will review all nutrient management plans submitted under Act 38 (PA Nutrient Management Act), approve those plans that meet Act 38 standards and monitor implementation of these plans. In addition, the District will provide information on federal nutrient management initiatives or confined animal feeding operation (CAFO) regulations. The District will upon request evaluate and determine if an individual operation is subject to Act 38.

- M. Upon written request by a landowner or operator, the District will facilitate conservation planning technical assistance to farm owners and or operators. Within the limits of our allocations, the District will provide cost share assistance to eligible landowners or operators.
- N. As part of a Delegation Agreement with the DEP and at the request of the County Commissioners, the District's Watershed Specialist will assist municipal officials and citizen groups to form watershed associations for the purpose of addressing local water resource issues on a watershed basis. The Watershed Specialist will also be available to assist municipal planners that wish to incorporate a watershed focus into zoning and land planning.
- O. The District will, in a timely manner, provide municipalities with current information relating to changes in fee schedules, regulations, program requirements, or permits for those program areas that are discussed in this Memorandum of Understanding.

**II. In carrying out the intent of this Memorandum, Antis Township shall:**

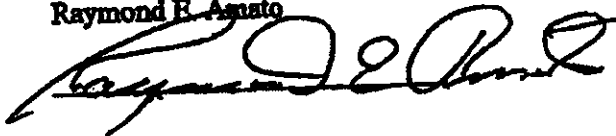
- A. Notify the District within 5 days of receipt of an application for any permit or approval that could involve earth disturbance activities consisting of 1 acre or more, pursuant to Chapter 102.42.
- B. Pursuant to Chapter 102.43, Antis Township shall not issue building or other permit or approval to those proposing or conducting earth disturbance activities requiring a Department permit until the Department or District has issued the E&S or individual NPDES Permit or approved coverage under a general NPDES Permit for Stormwater Discharges Associated with Construction Activities under Chapter 102.5.
- C. Shall provide instructions to have the E&S Plans submitted to the District and forward all questions pertaining to the preparation of E&S Plans and Applications and tracking forms to the District.
- D. Forward all third party complaints about ongoing earth disturbance projects to the District for their inspection.
- E. Upon notification by the District, withhold any building, grading, or other permits that apply as specified in the ordinance or Chapter 102.43, when and where it has been determined that an applicant has failed to secure E&S Plan approval from the District.
- F. Contact the District seeking services of the Ombudsman to assist with ordinance review and/or potential conflict resolution resulting from the interface of production agriculture and urban constituents.
- G. Disseminate natural resource conservation information and written materials to the general public

- H. Seek assistance from the District when natural resource protection concerns arise in your municipality.
- I. Encourage and support appropriate local watershed activities and will invite the District's Watershed Specialist to participate with watershed-related projects and planning activities.
- J. Inform permit applicants of new or updated permit requirements or program information as the District provides such information.
- K. Consult with the District before referring to or assigning responsibilities to the District in any of their ordinances.
- L. Chapter 102.4 requires all farming operations that disturb over 5,000 sq ft to have a conservation plan/Ag E&S plan. This also includes no-till as an earth disturbing practice. Along with the conservation plans, the Commonwealth also requires farmers to have a manure management plan, Chapter 91, developed for every farm that produces or spreads manure on their ground, no limit on size or scope of operation. Once farm size reaches certain thresholds based on livestock, further requirement for nutrient management may be required (such as Act 38 or CAFO). These plans must be available upon request for review from the landowner/operator. The District highly recommends that Antis Township require development of these plans before building permits for agricultural operations are approved.
- M. Rely upon the Commonwealth's Erosion, Sediment, and Stormwater Control program through this MOU to comply with MCM #4 of Antis Township's NPDES MS4 program.

III. This Memorandum of Understanding shall become effective immediately. It shall be reviewed annually, as the need arises by either or both parties, and may be amended by mutual consent of both parties. This MOU may be terminated at any time, by either party, following a 60 day written notice to the other party.

FOR ANTIS TOWNSHIP

Raymond E. Anato



Chairman of the Board

8.2.2012  
(DATE)

FOR THE BLAIR COUNTY CONSERVATION DISTRICT

  
(CHAIRMAN)

8/20/12  
(DATE)

## **MCM #5 APPENDIX**

- 1. MCM #5 Project Plan**
- 2. MCM #5 Attachments**

# **MCM#5: Post-Construction Stormwater Management (PCSM)** **in New and Re-Development**

**Antis Township**  
**2016-2017**

Antis Township has chosen to rely on DEP's statewide program for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all the requirements under BMPs #1 through #3 of this MCM #5; therefore, all requirements are met for BMPs #1 through #3 of this MCM #5 and for all requirements under MCM #4.

All major Subdivision and Land Development plans are reviewed by the Township Engineer to confirm compliance with the ordinance. All Subdivision and Land Development plans must adhere to the regulations specified in the ordinance, such as stormwater runoff magnitude and volume limits, and are subject to final approval by the Township Supervisors. When an NPDES permit for stormwater discharges associated with construction activities is required, the Blair County Conservation District and/or DEP may also review the Post Construction Stormwater Management Plan.

Land Development projects that require post construction SWM BMP's are required to establish a maintenance program. The facilities that are conveyed to the Township are inspected prior to taking over. Once conveyed, all facilities are inspected and maintained according to the Township's operation and maintenance program. SWM BMP's to remain privately owned are given a final inspection by the Township or Township Engineer prior to financial security release.

**STRUCTURAL STORMWATER MANAGEMENT BMP'S CONSTRUCTED  
IN ANTIS TOWNSHIP SINCE MARCH 2003**

Structural BMP	Type of SWM	Year Installed	SW Treatment (WQ or Infiltration)	Subsurface Infiltration Capabilities		Drainage Area to BMP				BMP Data			Receiving Water Body	Inspection Frequency	Person or Organization Responsible for Maintenance	Currently Functioning? (Y/N)	Location		Located in MS4 Boundary? (Y/N)		Mapped? <sup>3</sup> (Y/N)	Permit Number	Land Use
				Hydrologic Soil Group	Infiltration Rate (in./hr.)	Impervious (acres)	Pervious (acres)	Total (acres)	Volume Treated (cubic feet)	Surface Area (sq. ft.)	<sup>2</sup> Depth (ft.)	Storage Vol. (cubic feet)					Latitude	Longitude	2000 Census	2010 Census			
Jeff Long Graystone	<sup>1</sup> Dry Detention Basin	1	2002	N/A		0.47	0.19	0.66		425	3.00	2,518	Sandy Run		Property Owner	Y	40.564153	-78.338947	Y	Y	N	N/A	Residential (multi-unit complex)
	Underground Detention	2	2004	N/A		0.68	0.06	0.74		N/A	N/A	7,042				Y	40.564211	-78.339807	Y	Y	N		
		3				0.30	0.06	0.36		N/A	N/A	1,512				Y	40.563885	-78.340412	Y	Y	N		
Jeff Long Rest./Office/Retail (Orig. LaScalias/Seltzers, now Med. Bldg./Seltzers)	Underground Detention		2005	N/A	C	1.78	0.43	2.21		5,777	3.17	9,039	Sandy Run		Property Owner	Y	40.565712	-78.338652	Y	Y	N	PAG2-0007-04-004	Commercial
Reilly Garage Pipe Storage Facility	Underground Detention		2006	N/A	C	0.12	0.12	0.24		N/A	N/A	388	Little Juniata River	Annual by Twp.	Property Owner	Y	40.615984	-78.302432	N	N	Y	N/A	Residential
Bellwood Plaza (Kopp Drug) Stormwater Facility	Underground Detention /	1	2007	Infiltration	46	0.59	0.00	0.59		2,400	1.00	960	Little Juniata River	Annual by Twp.	Property Owner	Y	40.597471	-78.322169	Y	Y	Y	PAG2-0007-06-008	Commercial
		2			10	0.45	0.88	1.33		3,900	1.80	2,855				Y	40.597119	-78.321626	Y	Y	Y		
Winterstein Plaza Stormwater Facility	Underground Detention / Infiltration		2007	Infiltration	5	0.75	0.55	1.30		6,345	2.00	5,180	Sandy Run	Annual by Twp.	Property Owner	Y	40.55637	-78.343249	Y	Y	Y	PAG2-0007-06-017	Commercial
Todd Himes Garage Infiltration Trench	Infiltration Trenches	1	2007	Infiltration		0.03	0.09	0.12		390	3.00	469	Sugar Run	Annual by Twp.	Property Owner	Y	40.590218	-78.372131	N	N	Y	N/A	Residential
		2				0.06	0.25	0.31		710	4.00	1,136				Y	40.589838	-78.371474	N	N	Y		
Meyers Elementary School Stormwater Facility	Bioretention Basins	1	2008	WQ	C	0.43	0.00	0.43		1,058	3.50	1,693	Little Juniata River	Annual by Twp.	Property Owner	Y	40.594668	-78.328135	Y	Y	Y	PAG2-0007-01-001	Commercial
		2			C	0.42	0.20	1.05		1,440	3.75	2,592				Y	40.593811	-78.330118	Y	Y	Y		
Raystown Transit Service Detention Facilities	Dry Detention Basins	1	2008	Infiltration	B	1.04	0.43	1.47		740	1.50		Little Juniata River	Annual by Twp.	Property Owner	Y	40.591575	-78.323017	N	N	Y	PAG2-0007-07-022	Commercial
		2			B	0.48	0.08	0.56		1,260	2.00	5,706				Y	40.59189	-78.321944	N	N	Y		
John Yau Office & Retail Plaza Stormwater Facility	Underground Detention / Infiltration		2009	Infiltration / WQ	C	0.9	1.03	1.09		5,400	2.50	6,550	Sandy Run	Annual by Twp.	Property Owner	Y	40.552874	-78.34546	Y	Y	Y	PAG2-0007-03-021	Commercial
John Deere & Builders Surplus Detention Facility	Underground Det./Bioretention Basin		2011	WQ		1.10	4.26	5.36		4,038	4.00	8,883	Little Juniata River	Annual by Twp.	Property Owner	Y	40.581205	-78.32843	Y	N	Y	PAG2-0007-04-031	Commercial
Comfort Inn Stormwater Facility	Bioretention Basins	1	2011	WQ		0.67	0.00	0.67		5,217	5.00	19,209	Sandy Run	Annual by Twp.	Property Owner	Y	40.563678	-78.3324	N	Y	Y		Commercial
		2				4.58	0.11	4.69		15,370	7.00	106,763				Y	40.563172	-78.331772	N	Y	Y		
		3				0.74	0.30	1.04		17,613	5.75	82,019				Y	40.562294	-78.330324	N	Y	Y		
New Life Assembly of God Stormwater Facility	Underground Detention		2011	N/A		0.46	0.25	0.71		N/A	N/A	1,196	Sandy Run	Annual by Twp.	Property Owner	Y	40.565201	-78.332476	N	N	Y	N/A	Commercial
Enterprise Campus Lots 1 & 3 Stormwater Facility (Gardner Denver)	Bioretention Basins	1	2012	Infiltration / WQ		2.40	0.89	3.29		18,385	1.50	27,578	Little Juniata River	Annual by Twp.	Property Owner	Y	40.621722	-78.300232	N	N	N	PAG2-0007-11-015	Industrial
		2				0.26	0.49	0.75		1,691	4.00	3,383				Y	40.621752	-78.299631	N	N	N		
		3				1.38	0.40	1.78		1,044	4.00	2,089				Y	40.621494	-78.299111	N	N	N		
Days Inn Pinecroft	Bioretention Basin		2013	WQ	C	0.79	0.70	1.49		7,900	3.50	10,665	Sandy Run		Property Owner	Y	40.566704	-78.340407	Y	N	N	PAG2-0007-12-011	Commercial
Dennis & Susie Himes L.D.	Infiltration Trench		2014	Infiltration	B	0.27	0.18	0.45		360	3.67	528	Little Juniata River	Annual by Twp.	Property Owner	Y	40.600339	-78.322644	Y	Y	N	N/A	Commercial
Balfurd Cleaners Boiler Room Addition	Underground Detention (Cistern)		2014	N/A		0.04	0.00	0.04		N/A	N/A	160	Little Juniata River		Property Owner	Y	40.630811	-78.305259	N	N	N	PAG2-0007-12-004	Industrial
Sheetz Store #33 Rebuild	Bioretention Basins	1	2016	WQ	B	0.87	0.03	0.90		91	1.50	64	Little Juniata River		Property Owner	Y	40.600068	-78.320644	Y	Y	N	PAG2-0007-13-014	Commercial
		2			B	0.71	0.32	1.03		4,216	2.50	2,951				Y	40.599421	-78.32183	Y	Y	N		
		3			B	0.05	0.07	0.12		1,544	1.50	1,081				Y	40.599518	-78.322101	Y	Y	N		
		4			B	0.18	0.11	0.29		1,368	1.50	958				Y	40.599618	-78.32235	Y	Y	N		
		5			B	0.52	0.56	1.08		319	1.50	223				Y	40.600376	-78.322382	Y	Y	N		
		6			B	0.24	0.02	0.26		211	2.50	148				Y	40.600298	-78.321682	Y	Y	N		
																Y	40.600298	-78.321682	Y	Y	N		
DelGrosso's Wave Park/Lazy River	<sup>4</sup> Bioretention Basins	1	2016	Infiltration / WQ		16	0.40	0.15	0.55		4.50	2,722	Little Juniata River		Property Owner	Y	40.630126	-78.291655	N	N	N	PAG2-0007-14-011	Commercial
		2				0.1	0.22	0.52	0.74		4.00	1,922				Y	40.629829	-78.2911	N	N	N		
		3				113	1.17	0.90	2.07		4.00	1,084				Y	40.630214	-78.290113	N	N	N		
		4				100	0.99	0.19	1.18		4.00	3,917				Y	40.629839	-78.28967	N	N	N		
	<sup>4</sup> Constructed Wetland	5		WQ		N/A	2.74	1.49	4.23		2.50	14,520				Y	40.62835	-78.287713	N	N	N		
New Pig Addition	Bioretention Facilities /	1	2016	WQ	D	0.15	0.06	0.21		564	3.00	620	Little Juniata River		Property Owner	Y	40.630195	-78.308608	N	N	N	N/A	Industrial
		2			D	0.11	0.08	0.19		672	3.00	740				Y	40.630285	-78.307867	N	N	N		
Tipton Baptist Church	Underground Detention		2016	N/A	C	0.25	0.06	0.31		N/A	N/A	1,374	Tipton Run		Property Owner	Y	40.638003	-78.298823	N	N	N	N/A	Commercial

Last updated December 2016

<sup>1</sup> This basin was constructed prior to March 2003, however, additional SWM was added to the site in 2004 for a building addition.

<sup>2</sup> Depth includes storage in gravel and/or soil where applicable.

<sup>3</sup> All facilities that are mapped are shown on drawing UA-1.dwg.

<sup>4</sup> Bioretention Basins 1 and 2 are tributary to Bioretention Basin 3 and Bioretention Basins 1, 2, 3, & 4 are tributary to Constructed Wetland 5.

**STRUCTURAL STORMWATER MANAGEMENT BMP'S CONSTRUCTED  
IN ANTIS TOWNSHIP BEFORE MARCH 2003**

Structural BMP	Type of SWM	Year Installed	SW Treatment (WQ or Infiltration)	Subsurface Infiltration Capabilities		Drainage Area to BMP				BMP Data			Receiving Water Body	Inspection Frequency	Person or Organization Responsible for Maintenance	Currently Functioning? (Y/N)	Location		Located in MS4 Boundary? (Y/N)		Mapped? (Y/N)	Permit Number	Land Use
				Hydrologic Soil Group	Infiltration Rate (in./hr.)	Impervious (acres)	Pervious (acres)	Total (acres)	Volume Treated (cubic feet)	Surface Area (sq. ft.)	Depth (ft.)	Storage Vol. (cubic feet)					Latitude	Longitude	2000 Census	2010 Census			
Besteel Facility	Dry Detention Basin		N/A									85,813	Little Juniata River		Property Owner				N	N	N		Industrial
Iron City Cleaning	Dry Detention Basin		N/A					2.18				13,939	Little Juniata River		Property Owner				N	N	N		Industrial
PC Works Plus	Underground Detention		N/A					0.61				1,438	Little Juniata River		Property Owner				Y	Y	N		Commercial
J-Line Trucking	Dry Detention Basin		N/A					3.94				24,394	Sandy Run		Property Owner				N	N	N		Commercial
Commercial Envelope	Dry Detention Basin		N/A					12.07				31,468	Sandy Run		Property Owner				N	N	N		Commercial
Northside Modular Village	Dry Detention Basin		N/A					14.10				65,972	Bells Gap Run		Property Owner				N	N	N		Residential
ABCD Industrial Park	Dry Detention Basin		N/A					52.80				261,796	Little Juniata River		Property Owner				N	N	N		Industrial
Wolfs / 7th & 9th St.	Underground Detention		N/A					3.15				6,747	Bells Gap Run		Property Owner				Y	Y	N		Commercial
	Dry Detention Basin w/ Underground Storage		N/A					3.80				2,519											
Simington Development	Dry Detention Basin		N/A					33.67				29,454	Sandy Run		Property Owner				Y	Y	N		Commercial
Reliance Bank	Infiltration Trench		Infiltration					0.41				8,182	Sandy Run		Property Owner				Y	Y	N		Commercial
WW Engine	Dry Detention Basins		N/A					6.67				112,384	Little Juniata River		Property Owner				N	N	N		Commercial
Natural Gains	Underground Detention		N/A					0.60				1,800	Sandy Run		Property Owner				Y	Y	N		Commercial
Furrer Beverage	Dry Detention Basin		N/A					6.90				77,319	Sandy Run		Property Owner				Y	Y	N		Commercial
Surplus City	Dry Detention Basin		N/A					0.23				?	Little Juniata River		Property Owner				N	N	N		Commercial
ER Carpenter Co. Addition 2	Dry Detention Basin		N/A					9.45				36,185	Sandy Run		Property Owner				N	N	N		Industrial
Jim Decker Pinecroft Development	Dry Detention Basins		N/A					27.04				44,823	Little Juniata River & Sandy Run		Twp.?				Y	Y	N		Residential
	Infiltration Trenches		Infiltration					0.71				14,228											



Proposed but not complete yet																					
Deigrosso's Accounting Office Land Development																					

Commercial

Proposed but never built																						
Litz Center	Underground Detention							0.523				3180	Little Juniata River						N	N		
McCracken Storage Buildings	Underground Detention							1.28				5,035	Little Juniata River		Property Owner				Y	N		
Bell Tip Acres	Dry Detention Basin							9.61				28,880	Little Juniata River		Property Owner				N	N		
John Yau Restaurant	Underground Detention							1.36				4,034	Sandy Run		Property Owner				Y	Y		

Commercial?

Commercial

Residential

Commercial

## **MCM #6 APPENDIX**

- 1. MCM #6 Project Plan – submitted with the 2015-2016 Annual Report**
- 2. MCM #6 Attachments**
  - a. Highway Maintenance Crew Training Ad and Sign-In Sheet**

**Highway and Maintenance Crew Training  
Mandatory for Blair County Intergovernmental Stormwater  
Committee (ISC) Members**

As part of our MS4 responsibilities, we are required to hold mandatory training for our highway and maintenance crews. The 11 member Blair County ISC, has worked together to hold this joint training. This training will become a part of each municipality's annual report. Because of this, it is important that each municipality is represented with their highway and maintenance crews.

**Date:** **Wednesday, February 22, 2017**, snow date March 8th

**Time:** Morning Session **9:45am – 11:45am**

**OR**

Afternoon Session **12:15pm – 2:15pm**

**Bring a coat, you will be outside part of the time.**

**Lunch will be provided for both sessions from 11:45am-12:15pm.**

*Lunch is being provided courtesy of New Pig, Keller Engineers, Stiffler McGraw,  
and Levine Engineering.*

**Location:** Logan Township Municipal Building  
First Floor Meeting Room  
100 Chief Logan Circle  
Altoona, PA

**Topic:** ***Handling Spills – from the garage to the yard, and beyond...***

**Cost:** FREE

**Registration:** Please contact Cassandra Schmick, Logan Township at 814-944-5349 or by e-mail at [cschmick@logantownship-pa.gov](mailto:cschmick@logantownship-pa.gov). I will need to know the names of employees that will be attending each session. If you have a larger crew, please try to split them between the morning and afternoon sessions. Please respond by Friday, February 10<sup>th</sup>.

MS4 TRAINING -February 22, 2017  
ATTENDANCE SHEET

Sign or Initial

<b>Allegheny Township</b>	
	Fred Baker
	Adam Black
	Tim Campolong
	Logan Helsel
	Shelly Lightner
	Dave Spinazzola
<b>Antis Township</b>	
	Donald Carnell
	Lucas Martsof
	John Mellott
	Steve Shiffler
	Art Walters
	James Widdman
<b>Bellwood Borough</b>	
	Nicholas Boutiller
	Derrick Caswell
	James Parson, Jr.
	Thomas Whiteford

MS4 TRAINING -February 22, 2017  
ATTENDANCE SHEET

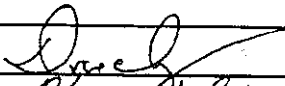
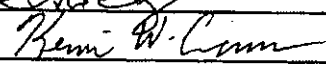



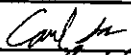

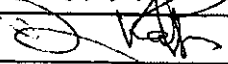
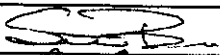

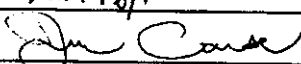
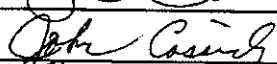
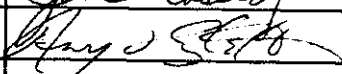
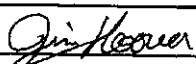
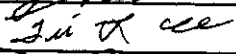


Kevin Bachtel		Sign or Initial
City of Altoona		
	Jeff Aungst	Jeff Aungst
	Greg Bartley	Greg Bartley
	Shawn Beatty	Shawn Beatty
	Jim Berry	Jim Berry
	Tim Becker	Tim Becker
	Ray Burley	Ray Burley
	Scott Campanaro	Scott Campanaro
	Scott Cooper	Scott Cooper
	Mark Criste	Mark Criste
	Rob Crossman	Rob Crossman
	Steve Davis	Steve Davis
	John Eckenrode	John Eckenrode
	Tony Emerick	Tony Emerick
	Mike Frye	Mike Frye
	Bob Gardner	Bob Gardner
	Shane Geis	Shane Geis
	Jane Gill	Jane Gill
	Chuck Good	Chuck Good
	Jeff Hornberger	Jeff Hornberger
	Bruce Hughey	Bruce Hughey
	Alan Hykes	Alan Hykes
	Chris Keagy	Chris Keagy
	Nate Kissell	Nate Kissell
	Eric Koller	Eric Koller
	Duane Kuny	Duane Kuny
	Travis Marra	Travis Marra
	Brian Merritts	Brian Merritts
	Chet Mosey	Chet Mosey
	Doug Moudy	Doug Moudy
	Denney Nearhoof	Denney Nearhoof
	Larry Nileski	Larry Nileski
	Steve Ocker	Steve Ocker
	Dan Ott	Dan Ott
	Lou Perino	Lou Perino
	Adrian Piper	Adrian Piper
	Jordan Raichle	Jordan Raichle
	Dominic Roberts	Dominic Roberts
	Don Schraff	Don Schraff
	Kenney Servello	Kenney Servello
	Fred Seville	Fred Seville
	Brian Shaner	Brian Shaner
	Dennis Smith	Dennis Smith
	Brenden Vansickel	Brenden Vansickel
	Bob Weigand	Bob Weigand
	Mark Williams	Mark Williams
	Chris Wilson	Chris Wilson
	Aneesa Winrick	Aneesa Winrick

Eric Wills

Sign or Initial


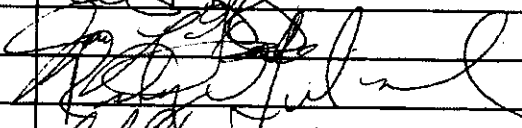

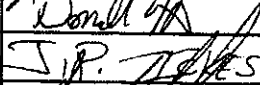
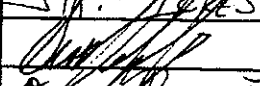
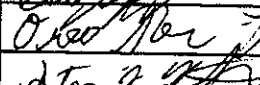
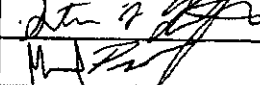
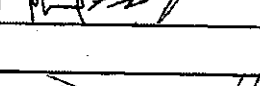
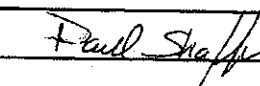
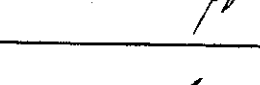
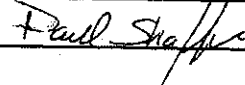
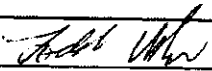
Logan Township		
	John Adams	<i>John Adams</i>
	John Albright	<i>John Albright</i>
	Eric Barr	
	LaMarr Dively	<i>LaMarr Dively</i>
	Larry Fether	<i>Larry Fether</i>
	Wayne McElheny	<i>Wayne McElheny</i>
	David Pozgar	<i>David Pozgar</i>
	Cassandra Schmick	<i>Cassandra Schmick</i>
	Fred Schwarze	<i>Fred Schwarze</i>
	John Shoeman	<i>John Shoeman</i>
	Jeff Stevens	<i>Jeffrey A. Stevens</i>
	Dave Swanger	
	Mike Wachter	<i>Mike Wachter</i>
	Kirk Weyant	<i>Kirk Weyant</i>
	Jeffrey Wills	<i>Jeffrey A. Wills</i>
	Chet Kowalski	<i>Chet Kowalski</i>
	Arden Shinn	<i>Arden Shinn</i>

Sign or Initial

Frankstown Township		
	Dave Chesney	
	Kevin Cramer	
	William Gentry	
	Robert Miller	
	Lewis Reese	
	Andy Shade	
	Carl Shaffer	
	Anthony Stevens	
	Dennis Walls	
Hollidaysburg Borough		
	Steve Bice	
	Rick Pope	
	Jim Carson	
	John Cassidy	
	Amy Hazlett	
	Frank Hicks	
	Jim Hoover	
	Tim Lee	
	Don Smithmyer	
	Richard Stringer	

MS4 TRAINING -February 22, 2017  
ATTENDANCE SHEET

Sign or Initial

Blair County		
	Chuck Bagley	
	James Garlick	
	Rocky Greenland	
	John Hartman	
	Donald Hazenstab	
	Joe Ickes	
	Scott Lingenfelter	
	Thomas Loechner	
	Steve Mentzer	
	Mike Persio	
	Steve Pielmeier	
	Paul Shaffer	
	John Stich	
	Doug Trotter	
	Todd Vaughn	

KEVIN ADAMS

Kevin Adams



Sign or Initial

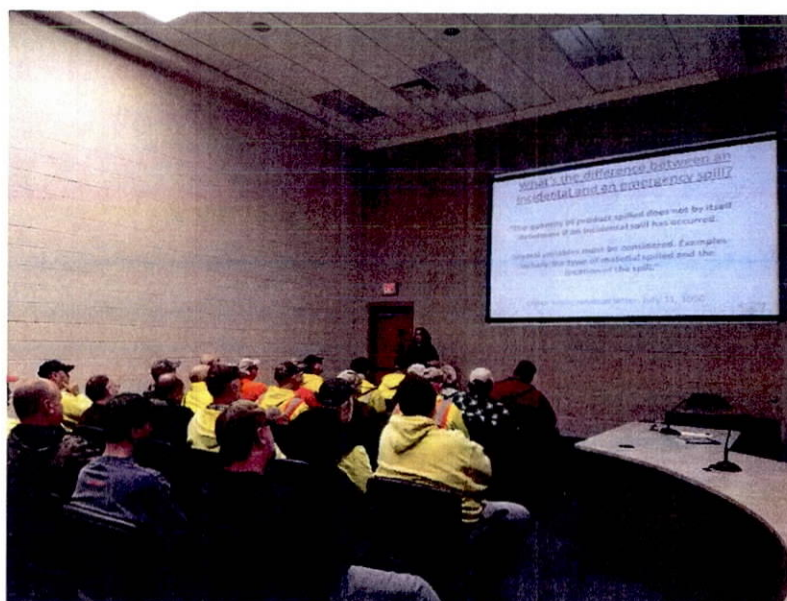
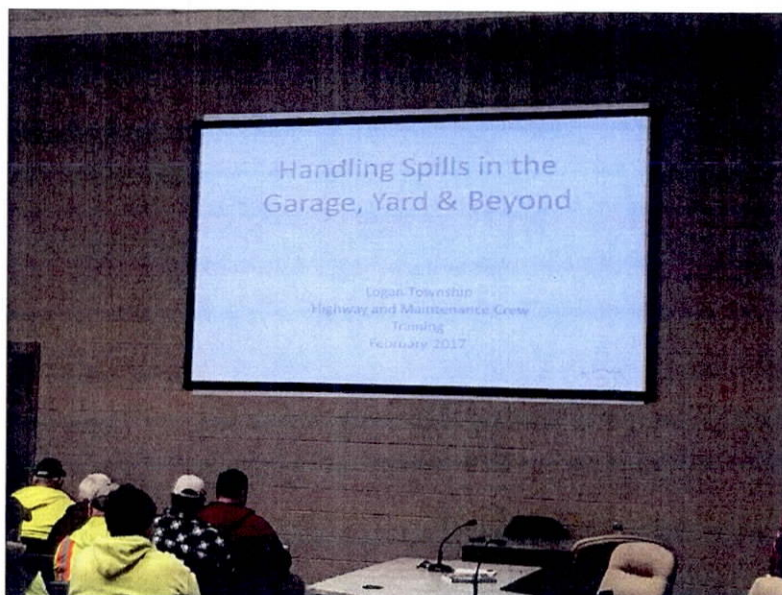
Blair Township		
	Palmer Brown	<i>Palmer Brown</i>
	Louis J. Legory	<i>L. Legory</i>
	Mike Nazaruk	<i>Mike Nazaruk</i>
	John Reed	<i>John R Reed</i>
Duncansville Borough		
	James R. Batzel	
	Glenn W. Hartman	
Freedom Township		
	Ed Bender	<i>Ed Bender</i>
	Doug Grace	<i>Doug Grace</i>

**Sign or Initial**

Penn State Altoona		
	Mike Baronner	Michael S. Baronner
	Mike Bauer	
	Russ Bruce	
	Steve Cooney	
	Rick Lewis	
	Brad Long	Sam Long
	Dom Rago	
	Bob Rossman	
	Denny Yahner	Denny Yahner

[illegible]

## Public Works Training – February 22, 2017



## **OTHER REQUIRED REPORT ELEMENTS APPENDIX**

- 1. Intergovernmental Stormwater Committee Agreement**
- 2. Bellwood Antis Park - Stormwater Rain Garden & Bio-swale**
- 3. MS4 Stormwater Coordinator vacancy announcement and job description**
- 4. Stormwater Coordinator Agreement**
- 5. Agreement for Professional Services – Center for Watershed Protection TMDL and PRP preparation**

## **ORDINANCE NO.**

AN ORDINANCE OF THE TOWNSHIP OF ANTIS, BLAIR COUNTY, APPROVING THE AGREEMENT CREATING THE INTERGOVERNMENTAL STORMWATER COMMITTEE SETTING FORTH: A TITLE; AUTHORITY AND APPROVAL FOR THE AGREEMENT; CONTENTS OF THE AGREEMENT INCLUDING THE INITIAL MEMBERS, TWO YEAR TERM OF AGREEMENT, PURPOSE AND OBJECTIVES, POWERS FOR THE COMMITTEE, MANNER AND EXTENT OF FINANCING, ORGANIZATIONAL STRUCTURE; A SEVERABILITY CLAUSE; A REPEALER OF INCONSISTENT ORDINANCES AND AN EFFECTIVE DATE.

The Governing Body of the Township of Antis, Blair County, (hereinafter "Municipality") hereby ordains the following:

### **SECTION 1. TITLE.**

This Ordinance shall be known and cited as the "Intergovernmental Stormwater Committee Agreement Ordinance".

### **SECTION 2. AUTHORITY.**

The Municipality is authorized to enter into and execute intergovernmental agreements in the exercise and/or performance of its governmental functions, powers or responsibilities by authority of the Intergovernmental Cooperation Act (Act 177 of 1996, 53 Pa. C.S. § 2301 et seq., as amended.)

### **SECTION 3. APPROVAL.**

The following intergovernmental agreement, a true and correct copy of which is attached hereto and incorporated herein by this reference, to be executed by the Municipality, is hereby approved:

Agreement Establishing the Intergovernmental Stormwater Committee (hereinafter "Agreement").

Municipality from the Pennsylvania Department of Environmental Protection ("DEP") in obtaining stormwater discharges permits from DEP.

1. Powers.

(a) receive, administer, and dispense funds from whatever source derived including, but not limited to, municipal, state, federal, or other sources and establish such accounts and funds necessary for the same;

(b) invest any monies held in investments authorized as investments for Member Municipalities;

(c) contract for services;

(d) establish such organizational structure as deemed necessary;

(e) acquire, manage, license, or dispose of personal property as permitted by the Act and as specified in this Agreement and in accordance with executed contracts;

(f) as set forth herein, acquire, manage, license, lease, or dispose of real property, as specified in the Agreement and in accordance with executed contracts;

(g) propose, initiate, implement, or revise studies, policy discussions and plans for the Committee;

(h) employ or contract for the employment of staff in permanent or temporary, part-time or full-time positions as necessary, according to adopted policies and fix the salaries, wages, pay and other compensation of such employees or such contracts for the same;

(i) establish employee benefit programs and enter into contracts for social security, group insurance or other benefits;

(j) purchase (from an insurance company authorized to transact business in Pennsylvania) insurance insuring the property of the Committee against loss or damage and insuring the

be on a percentage formula basis. A quorum shall consist of a majority of Board members. The officers of the Board and their terms shall be as set forth in the Agreement. The Board shall insure that the day to day affairs of the Committee are managed appropriately, subject to the provisions of the Agreement and may appoint committees as deemed appropriate.

F. Real and Personal Property Acquisition and Disposal. The Committee may purchase or lease real and personal property and/or accept the donation of the same in accordance with the Act.

G. Insurance. The Committee shall be empowered to enter into Contracts for policies of group insurance and employee benefits, including Social Security, for its employees if any.

#### **SECTION 5. INCORPORATION OF AGREEMENT.**

A copy of the above-mentioned Agreement is attached hereto and the same is hereby incorporated as part of this Ordinance as if fully set forth at length with the intent of the attachment and incorporation of said Intergovernmental Agreement into this Ordinance being to satisfy the Act.

#### **SECTION 6. SEVERABILITY.**

If any sentence, clause, section or part of this Ordinance is for any reason found to be unconstitutional, illegal or invalid, such unconstitutionality, illegality or invalidity shall not affect or impair any of the remaining provisions, sentences, clauses, sections or parts of this Ordinances. It is hereby declared as the intent of the Governing Body of the Municipality that this Ordinance would have been adopted had such unconstitutional, illegal or invalid sentence, clause, section or part thereof not been included herein.

#### **SECTION 7. REPEALER**

All ordinances or parts of ordinances which are inconsistent herewith are hereby

## **INTERGOVERNMENTAL STORMWATER COMMITTEE AGREEMENT**

**THIS INTERGOVERNMENTAL STORMWATER COMMITTEE AGREEMENT,**  
(hereinafter, at times, "Agreement") is made and entered this      day of      , 2016, by and among  
**ALLEGHENY TOWNSHIP, ANTIS TOWNSHIP, BELLWOOD BOROUGH, BLAIR**  
**TOWNSHIP, CITY OF ALTOONA, DUNCANSVILLE BOROUGH, FRANKSTOWN**  
**TOWNSHIP, FREEDOM TOWNSHIP, HOLLIDAYSBURG BOROUGH, LOGAN TOWNSHIP**  
**AND BLAIR COUNTY,** (hereinafter individually "Municipality" or collectively "Municipalities") all  
Pennsylvania political subdivisions located in Blair County, Pennsylvania.

### **WITNESSETH:**

**WHEREAS,** the Municipalities hold a Pennsylvania Department of Environmental Protection  
(hereinafter "DEP") MS4 Permit (regarding stormwater discharges) and are required to prepare and  
implement a Chesapeake Bay Pollutant Reduction Plan (hereinafter "CBPRP"); and

**WHEREAS,** the Municipalities have partnered together for the past several years to determine  
how best to comply with heightened best management practices (hereinafter "BMPs") and inspection  
requirements by DEP in order to renew their respective MS4 Permits; and

**WHEREAS,** BMPs or BMP projects require capital expenditures, in some cases, significant  
capital expenditures; and

**WHEREAS,** the Municipalities have had discussions with DEP wherein each Municipality shall  
obtain an individual MS4 Permit for each Municipality but will be given credit for BMP projects  
implemented by each of the other Municipalities; and

**WHEREAS,** recognizing that such BMP projects will be beneficial to all the Municipalities  
given the joint credit for such BMP projects, the Municipalities desire to formalize their relationship by  
entering into an intergovernmental agreement to establish an Intergovernmental Stormwater Committee



of this Agreement; and

C. Regularly convene the ISC, maintain all ISC records, and communicate pertinent information with the Municipalities between such regular meetings; and

D. Receive, invest and distribute any and all real estate and funds, from grants or whatever source derived in accordance with this Agreement and/or the Act in order to administer this Agreement pursuant to its terms; and

E. Coordinate the completion of all required reports and plans, including the CBPRP, public education plans, public involvement plan, annual reports and progress reports for the Municipalities and assist in the implementation of these plans to ensure among other goals that the Municipalities receive joint credit for BMPs undertaken in any Municipality; and

F. Carry out appropriate Minimum Control Measures (MCMs), including public education and involvement activities, at a regional level on behalf of the Municipalities; and

G. Select and, thereafter, manage, supervise and evaluate any professional consultants hired to perform work for the Municipalities at a regional level, including preparing the CBPRP; and

H. Oversee and assist in the implementation of MS4 related mapping, GIS and field work activities completed by or on behalf of the Municipalities; and

I. Coordinate regular MS4 trainings, tours and information sharing sessions for appropriate staff of the Municipalities; and

J. Research funding opportunities, prepare and submit grant applications in support of MS4 compliance and the ISC; and

K. Attend DEP or other applicable governmental agency inspections of

by the ISC.

### 3. ISC Membership.

#### A. Composition.

- (i) Initial Members. The ISC shall be initially composed of one (1) person from each Municipality hereinabove listed. Each Municipality shall appoint a member and a substitute member and notify the ISC in writing of the names of the persons so appointed.
- (ii) Future Members. Any municipality may become a member of the ISC as follows:
  - (a) A municipality shall submit a written request for membership signed by the chief executive officer of the said municipality and duly attested indicating the names of the officials proposed as representatives to the ISC.
  - (b) Upon receipt of the written request for membership, the member Municipalities of the ISC shall vote on the request and if affirmative action is taken by a majority of the said member Municipalities, the Secretary of the ISC shall forward an ISC Membership Agreement, to the requesting municipality for appropriate execution. Upon execution by the requesting municipality, the said municipality shall forward the Agreement, together with the Ordinance of that Municipality approving the said Membership Agreement, to the ISC for execution by the President and Secretary of the ISC. Thereafter, upon compliance with the cost sharing provisions set forth in Paragraph 5, the requesting municipality shall become a voting member Municipality of the ISC. The ISC and the Municipalities shall not be required to undertake any other action with regard to admittance of any additional municipalities other than such action as set forth herein.

would be had by, preserved to or applicable to a municipality, its employees, officers and officials under the provisions of the Political Subdivisions Tort Claims Act (Subchapter C of Chapter 85 of Title 42 of the Pennsylvania Consolidated Statutes, Act 142 of October 5, 1980, as amended, 42 PA Con. Stat. Ann. §8541 et seq.), and/or under the provisions of any other Pennsylvania law or any federal law, now or hereafter enacted which provides for immunities, limitations, rights, benefits, or powers in connection with the subject matter of this Agreement.

#### 5. Cost Sharing.

A. Costs. The Municipalities shall contribute the sum of One Hundred Thousand \$100,000.00 Dollars to pay for the cost to be incurred by the ISC for each year of the term of this Agreement for a total of Two Hundred Thousand (\$200,000.00) for the term of this two (2) year Agreement. Said sum shall be divided, as set forth hereinafter on a percentage formula basis among the Municipalities and with said portion to be paid as hereafter set forth. Any future member municipality accepted as a member shall pay the amount allocated to such future municipality on the percentage formula basis determined at the time of such members admission to the ISC, regardless of the time of year in which said municipality becomes a member of the ISC, unless otherwise directed by the ISC. Such yearly compensation shall include the cost to administer this ISC and for such other costs incurred by the ISC to carry out the purposes of the ISC including, but not limited to, the hiring of consultants. The percentage formula basis upon which the annual costs are to be shared by the Municipalities was developed by the Environmental Finance Center and is based on population, stream length, and impervious surface, resulting in the following breakdown of annual cost:

1, said costs shall be paid to the ISC in the amount and at the time which the ISC directs by written notice to the municipality requesting membership.

6. Additional Revenues. Any and all revenues received by the ISC or by a Municipality or other entity on behalf of the ISC, from whatever source derived, including but not limited to grant funds, shall not be used to offset any amounts due by the Municipalities but instead shall be used by the ISC to fund such undertakings deemed appropriate by the ISC.

7. Term of Agreement. This Agreement shall commence on the 1st day of January, 2017, and shall continue to be in effect until the 31st day of December, 2018. This Agreement may be renewed upon the ISC receiving a resolution of the governing bodies of a Municipality indicating the terms and conditions of such renewal. In the event a Municipality does not supply such a resolution to the ISC by December 1, 2018, the Agreement as renewed shall not include any such Municipality as a member and such Municipality shall not be entitled to the benefits nor be encumbered with any duties as set forth in any such renewed agreement. This Intergovernmental Stormwater Committee Agreement is adopted pursuant to the Intergovernmental Cooperation Law of the Commonwealth of Pennsylvania, found at 53 Pa. Stat. Ann. §2301 et seq., and each member Municipality, whether initial or future, shall take all necessary steps under said statute to comply with the same, including but not limited to the enactment of an ordinance to approve this Agreement. This Agreement may not be terminated without the written agreement of all the Municipalities a party hereto.

8. Entire Agreement. This Agreement constitutes the entire contract by the parties hereto, and there are no other understandings, oral or written, relating to the subject matter hereof. This Agreement may not be changed, modified, or amended in whole or in part except in writing, signed by all the parties hereto.

9. Binding Effect. This Agreement and all of its terms and conditions shall extend to and be binding upon the parties hereto and upon their respective heirs, executors, administrators, successors and assigns.

10. Governing Law. This Agreement shall be governed by the Laws of the Commonwealth of

**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**ALLEGHENY TOWNSHIP**

.....  
**Secretary**

**By:**

.....  
**Chair**

**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**BELLWOOD BOROUGH**

**Borough Secretary**

**By:**

**Council President**

**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**CITY OF ALTOONA**

**City Clerk**

**By:**

**Mayor**

**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**FRANKSTOWN TOWNSHIP**

\_\_\_\_\_  
**Secretary**

**By:**

\_\_\_\_\_  
**Chair**



**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**HOLLIDAYSBURG BOROUGH**

\_\_\_\_\_  
Borough Secretary

By:

\_\_\_\_\_  
Council President

**SIGNATURE PAGE FOR  
INTERGOVERNMENTAL STORMWATER AGREEMENT - 2016**

**ATTEST:**

**BLAIR COUNTY**

**Chief Clerk**

**By:**

**Chair**

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# STIFFLER McGRAW

Engineers • Surveyors • Architects

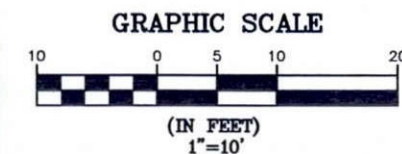
BLAIR COUNTY  
 1731 N. Juniata Street  
 Hollidaysburg, PA 16648  
 Phone: 814.696.6280 Fax: 814.696.6240

With Offices In The Counties Of:  
 Bedford • Bradford • Indiana • Warren

Owner:  
 BELLWOOD-ANTIS PARK &  
 RECREATION AUTHORITY

Project Name:  
 BELLWOOD-ANTIS PARK BMP  
 DESIGN

Sheet Title:  
 RAIN GARDEN  
 ENLARGEMENT



PROJECT NO. 90-0018.554  
 DRAWN BY: CSF  
 DESIGNED BY: CSF  
 CHECKED BY:

Drawing:  
 SITE PLAN

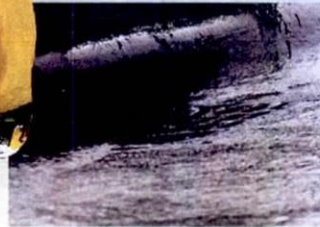


BLAIR CONSERVATION/BELLWOOD ANTIS PARK

# Rain garden

## Mother Nature's Filter

In nature, rain falls on trees and plants and then gradually seeps into the soil and streams. Rain can't penetrate rooftops, roads, and parking lots, so it pours across them and gushes into streams and rivers, causing erosion along the way. Rain gardens like the one in Bellwood Antis Park use deep-rooted plants to slow down water flow, reduce erosion, and filter out pollutants.

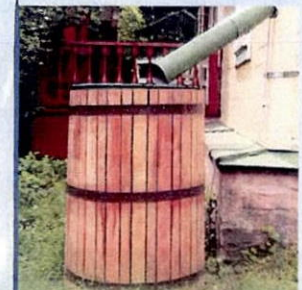


## DIRTY RAIN

When is rainwater more than just rain? When it travels across impervious manmade surfaces like sidewalks and highways. During its journey, the rainwater picks up oil, pesticides, litter, and dirt. These pollutants travel with the rainwater to the nearest stream, river, or other body of water.

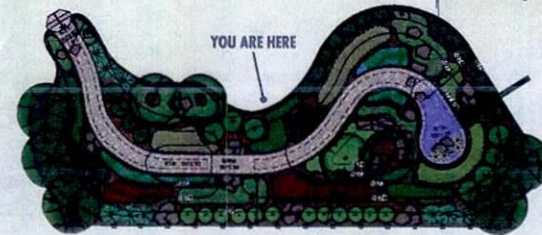
## CHILL OUT

Bells Gap Run is a great place to try your hand at fishing for wild brook trout — thanks in part to rain gardens and other vegetation that help keep the water cool. Rainwater heats up as it hits hot shingles and asphalt. Rain gardens slow the flow so water can cool down before entering the stream.



## You Can Help

Think about all the water that pours out of your downspouts when it rains. You can harvest that rainwater by directing it into a rain barrel. Later, use water from the barrel to water your indoor and outdoor plants. You'll cut your water bill while lessening erosion.



good  
for all.

STIFFLER  
MCGRAW

NFWF  
Chesapeake Bay Stewardship Fund



Major funding is provided by the Chesapeake Bay Stewardship Fund, a partnership of the U.S. Environmental Protection Agency, the Chesapeake Bay Program, and the National Fish and Wildlife Foundation.





Bellwood-Antis Park  
 Rain Garden & Bio-swale  
 Bellwood Borough & Antis Township

## STORMWATER COORDINATOR

The Blair County Conservation District has a vacancy for an MS4 Stormwater Coordinator to complete duties associated with the Intergovernmental Stormwater Committee (ISC) serving 11 municipalities in Blair County. Primary duties include: Facilitation of the ISC; coordinate completion of the CBPRP and TMDL Plan; develop a written MS4 Stormwater Management Program Plan; develop protocol and maintain records to track MS4 permit requirements; facilitate municipal training; maintain the group website; coordinate stormwater mapping; identify and complete grant applications; provide educational opportunities. Minimum requirements: B.S. degree in Natural or Physical Sciences, Environmental Planning, or a related field, related experience and training may be considered; 2 years practical experience in the field stormwater, municipal governments, municipal maintenance & operations; knowledge of NPDES MS4 permitting processes; familiarity with water quality regulations and TMDL's; experience working with GIS; strong written and verbal communication skills; valid driver's license. This is a full-time position, 35 hours per week, with benefits. Must be able to work flexible hours, including some evening hours. If interested please send resume, cover letter and salary requirements on or before April 28, 2017 to Donna Fisher, Manager; Blair County Conservation District, 1407 Blair Street, Hollidaysburg, PA 16648. Equal Employment Opportunity.

## JOB DESCRIPTION

### MS4 STORMWATER COORDINATOR

Blair County Conservation District

#### POSITION SUMMARY:

The MS4 Stormwater Coordinator will serve the administrative function of the Blair County Intergovernmental Stormwater Committee (ISC), through a Memorandum of Agreement by and between individual Blair County Municipalities and the Blair County Conservation District (District).

The MS4 Stormwater Coordinator will be responsible for the development, implementation, and coordination of all aspects of signatory Blair County ISC member communities' (Member) compliance with their Municipal Separate Storm Sewer System Permit (MS4 Permit), as dictated through the Memorandum of Agreement.

The MS4 Stormwater Coordinator shall facilitate proper implementation of the Minimum Control Measures (MCM's) outlined within the MS4 Permit. The MS4 Stormwater Coordinator is also responsible to facilitate compliance with the Chesapeake Bay Pollution Reduction Plan (CBPRP) and the Total Maximum Daily Load (TMDL) Plan requirements of each signatory Member's MS4 Permits.

#### ESSENTIAL FUNCTIONS:

- Facilitate interaction between the District and the ISC and within the ISC.
- Coordinate and conduct meetings of the ISC.
- Prepare a monthly written reports of activities. Provide verbal reports to the District Board as requested and to the ISC at scheduled meetings.
- When appropriate, coordinate completion of a multi-municipal CBPRP and a TMDL Plan for the Members, prepared by a consultant hired by the ISC. CBPRP and TMDL plans will include an implementation schedule and estimation of pollution reductions.
- Develop a written MS4 Stormwater Management Program Plan for the ISC. This plan will include the specific requirements for each of the MCM's and can be adapted for use by each Member. Current MCMs include:
  - Public education
  - Public participation
  - Illicit discharge
  - Construction
  - Post-construction
  - Good housekeeping

- Maintain a working knowledge of Commonwealth and federal laws pertaining to MS4 permit requirements such as the Commonwealth's Watershed Implementation Plan and litigation decisions having impact on the ISC.
- Maintain a working knowledge of water quality improvement construction projects and the nutrient and sediment reductions achieved with various construction projects.
- Facilitate and coordinate completion of required storm sewer mapping either on a county-wide basis or assist Members in completing mapping of their system. All mapping efforts, whether individual or multi-municipal, will be coordinated with the Blair County GIS Coordinator to assure consistency between all Members.
- Research opportunities for the design and implementation of projects not already identified in the CBPRP/TMDL strategy or plan.
- Develop protocol and maintain organized records to document and track compliance with all MS4 Permit requirements for each Member.
- Create and manage a database for the documentation of requirements and information necessary in the completion of mandated reports.
- Coordinate and assist Members in the completion of their MS4 Permit annual report by providing documentation of all MCM compliance activities completed or facilitated by the MS4 Coordinator and the District.
- Maintain the ISC Website at [www.blaircleanwater.org](http://www.blaircleanwater.org). Provide educational materials and internet links related to stormwater to Members for inclusion on Member's websites.
- Identify grant opportunities available to assist Members in meeting their MS4 Permit requirements. Facilitate and/or prepare funding application submissions for the District, ISC or individual Members. Administer funding sources secured by the ISC or Members, when appropriate.
- Develop written training plans and training schedules for Member's employees. Facilitate opportunities for training.
- Execute the policies and procedure as formulated by the Conservation District and the ISC.
- Other duties as assigned.

#### **POSITION MINIMUM REQUIREMENTS:**

##### **Education and Experience**

- Bachelor's degree in Natural or Physical Sciences (such as but not limited to Environmental Sciences, Engineering/Architecture, Biology, Ecology), Environmental Planning or a related field. Demonstrated experience in grant administration, project management with a background in natural sciences may be considered in lieu of a Bachelor's degree.



- Thorough knowledge of stormwater processes and water quality with a minimum of two (2) years of practical experience working in this field to include experience with local municipal governments, local municipal maintenance and operations functions and natural resource management .
- Thorough knowledge of the requirements of NPDES Individual/General Permit for Storm water Discharges from Municipal Separate Storm Sewer Systems program regulations including project management and compliance initiatives.
- Familiarity with Federal, State and Local water quality regulations, total maximum daily load requirements for waters of the Commonwealth and local government ordinances.
- Experience working with Geographical Information Systems (GIS) and Global Positioning Systems (GPS).

#### General Knowledge/Abilities

- Must be able to function independently, have personal integrity, flexibility and the ability to work effectively with others as a team.
- Must be able to execute the policies and procedures of the Blair County Conservation District and the ISC.
- Shall be skilled in both oral and written communications; have strong public speaking skills and possess excellent project management skills.
- Maintain a comprehensive knowledge of the Microsoft Office Suite.
- Maintain a valid Pennsylvania driver's license.
- Ability to operate a hand held GPS and digital camera.
- Must be able to lift, pull, push and move up to fifty pounds.
- Be able to walk, stand, and sit for extended periods of time.
- Will be required at times to climb over rough terrain, function in streams, kneel, bend and twist while completing work out of doors in varying weather conditions.

#### **SUPERVISION:**

The MS4 Stormwater Coordinator works with and under the supervision of the Conservation District Manager. Duties will be assigned by the manager and/or directly by the Conservation District Board of Directors. Due to the nature of this position (serving the ISC and multiple Members), others may be involved in the suggestion of work elements through the Conservation District Manager.

#### **SUPERVISORY REQUIREMENTS:**

Manages consultants on a project basis. Supervises interns and contract employees as needed.

**STORMWATER COORDINATOR AGREEMENT**

THIS AGREEMENT, made this 19<sup>th</sup> day of January, 2017, between THE INTERGOVERNMENTAL STORMWATER COMMITTEE, a Council of Governments established pursuant to the laws of the Commonwealth of Pennsylvania (hereinafter "ISC") and the BLAIR COUNTY CONSERVATION DISTRICT, a Pennsylvania state political body (hereinafter "District").

**WITNESSETH:**

WHEREAS, the ISC was established by certain Blair County municipalities to address certain Municipal Separate Storm Sewer System (MS4) heightened permit requirements for the member municipalities of the ISC; and

WHEREAS, one of the policy declarations of the Commonwealth in enacting the statute allowing the creation of conservation agencies such as the District is to assist local governments in developing and implementing plans for storm water management; and

WHEREAS, the ISC desires to have the District coordinate the activities of the ISC, and the District desires to undertake such activities in accordance with the terms and conditions hereinafter set forth.

NOW, THEREFORE, in consideration of the mutual covenants and promises contained herein, the parties hereto, intending to be legally bound hereby, agree as follows:

1. Incorporation of Recitals. The above recitals are hereby incorporated herein by this reference.
2. Agreement For Services. The ISC hereby contracts the District to act as Coordinator for the ISC upon the terms and conditions set forth herein.
3. District's Scope of Work and Obligations. The work to be performed by the District for the ISC shall be as follows:

- A. Designate an employee or employees of the District to carry out the obligations set forth herein and provide the necessary workspace for daily professional function for such individual or individuals; and
- B. Communicate with DEP and other applicable governmental agencies on behalf of the ISC, subject to the approval of any ISC municipality that may be the subject of such communication, and advise the ISC municipalities to ensure the requirements of the MS4 Program are fully understood; and
- C. Regularly convene the ISC, maintain all ISC records, including but not limited to financial records, and communicate pertinent information with the ISC municipalities between such regular meetings; and
- D. Receive and distribute any and all MS4 Program funds from grants and/or the ISC municipalities as directed by the ISC and/or as needed; and
- E. Coordinate the completion of all required MS4 reports and plans, including the Chesapeake Bay Pollutant Reduction Plan ("CBPRP"); public education plans; public involvement plan; annual reports and progress reports for the ISC municipalities; and assist in the implementation of these plans to ensure among other goals that the ISC municipalities receive joint credit for best management practices ("BMPs") undertaken in any ISC municipality; and
- F. Carry out appropriate Minimum Control Measures (MCMs), including public education and involvement activities, at a regional level on behalf of the ISC municipalities; and

- G. Select and, thereafter, manage, supervise and evaluate any professional consultants hired to perform work for the ISC municipalities at a regional level, including preparing the CBPRP; and
- H. Oversee and assist in the implementation of MS4 related mapping, GIS and field work activities completed by or on behalf of the ISC municipalities; and
- I. Coordinate regular MS4 trainings, tours and information sharing sessions for appropriate staff of the ISC municipalities; and
- J. Research funding opportunities, prepare and submit grant applications in support of MS4 compliance on behalf of the ISC and its municipalities; and
- K. Attend DEP or other applicable governmental agency inspections of ISC municipalities' MS4 programs and meeting with such agencies pertaining to the MS4 Program and assist ISC municipalities in addressing any required follow-up to identified deficiencies; and
- L. Participate in continuing updates to the Blair County Stormwater Management Plan and implementation thereof through evaluation of and possible amendments to ISC municipalities' stormwater management ordinances; and
- M. Monitor and maintain a working knowledge of state and federal laws pertaining to MS4s and court case precedent decisions having potential impact on the ISC municipalities and regularly apprise the ISC municipalities of such legal issues; and
- N. Coordinate and assist in submitting future MS4 permit applications, as renewals or re-submittals become necessary, subject to the approval of any affected ISC municipality and coordinate the addition of future MS4 municipalities to the ISC as necessary; and

O. Provide a monthly report to the ISC members with a brief summary of activities carried out by the District, in such detail as the ISC shall reasonably request; and

P. Provide quarterly invoices to the ISC to fund the ISC cost including the cost charged by the District to the ISC for services rendered hereunder. The invoices will be accompanied by a summary of work performed by the District's staff and approved consultants since the last invoice along with how much of the \$100,000.00 annual District compensation has been utilized for purposes of determining any amount leftover at the end of the year as relevant under Paragraph 4 below. The first invoice will be sent to the ISC at least forty-five (45) days prior to the end of any quarter, except the first such invoice will be sent on or before December 31, 2016 and payable on or by January 31, 2017; and

Q. The District shall convene a meeting with the ISC members by June 30, 2017, to discuss the District's employee(s) designated to perform as MS4 Coordinator for the ISC; and

R. The District shall provide the ISC members with an opportunity to comment on the performance of the District's employee(s) designated as the ISC MS4 Coordinator and the appropriateness of the said employee(s) goals and objectives as part of the District's performance review process, but the District shall have the sole responsibility for the employment details of such employee(s) other than as addressed in this Agreement.

4. District Compensation. The District shall be compensated by the ISC in the amount of \$100,000.00 for each year of the term of this Agreement. Such payment shall be paid on at least a quarterly basis with the exception of the first payment, which shall be on or before January 31, 2017. The ISC shall be responsible for invoicing and collecting monies from the ISC municipalities through the

District's employee(s) designated to perform the duties of this Agreement pursuant to Paragraph 3A. In the event that the District does not utilize the entire \$100,000.00 during the course of a fiscal year (January 1<sup>st</sup> to December 31<sup>st</sup>), the parties agree to apply/use the unused portion as directed by the ISC.

5. Term of Agreement. This Agreement shall be for a term of two (2) years, commencing on January 1, 2017 and terminating on December 31, 2018.

6. No Employment Contract. Nothing contained in the Agreement shall be construed to constitute the District and/or its designated employee(s) as an employee(s) of the ISC, nor shall either party have any authority to bind the other in any respect; it being intended that District shall remain an independent contractor.

7. Governing Law. This Agreement is deemed to be entered into in Blair County, Pennsylvania, and interpreted according to the laws of the Commonwealth of Pennsylvania.

8. Representatives. This Agreement shall be binding upon and shall inure to the benefit of the parties hereto, their respective assigns and successors, but neither this Agreement nor any of the rights hereunder shall be assigned by either party, without the prior written consent of the other party.

9. Exclusivity. This Agreement is the only Agreement between the parties, and there are no other agreements between ISC and District that are not specifically set forth herein. This Agreement supersedes any previous agreements and/or understandings between the District and the ISC and may be amended only in writing signed by both parties hereto.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

ATTEST:

INTERGOVERNMENTAL STORMWATER  
COMMITTEE

Silke L. Mman  
Secretary

By Samuel B. Brian  
Chair

ATTEST:

BLAIR COUNTY CONSERVATION DISTRICT

James E Biddle  
Secretary

By Harold W. Biddle  
Chair

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## AGREEMENT FOR PROFESSIONAL SERVICES

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The Center for Watershed Protection, Inc. (the Center) is pleased to submit this scope of work and fee proposal for preparing the Blair County Intergovernmental Stormwater Committee (ISC) with their total maximum daily load (TMDL) and Pollution Reduction Plan (PRP) (TMDL and PRP shall be included in the same plan and are referred to jointly as PRP). The PRP will address the needs for each of the individual municipalities that make up the ISC (Planning Area). This proposal outlines the Center's scope of work and fee proposal for the PRP. If the proposed scope of work, fee, and terms and conditions outlined here are acceptable to the ISC, please sign and return this document, which will then serve as the PRP project contract. Mike Hickman will be the Project Manager and the primary contact for this PRP project. His resume is provided as an attachment to this document.

### Scope of Work

#### Task 1 Meetings and Fieldwork

The Center will participate in up to four (4) in person meetings throughout the ISC TMDL and PRP project process and provide the ISC with a brief written summary on the progress of each of the tasks set forth hereinafter within ten (10) days of the completion of each task.

**Meeting 1 – Kickoff meeting and field work in Blair County.** The kickoff meeting will occur in a location to be determined by the ISC and will be approximately 2-3 hours. The meeting will cover:

1. Center Team Members
2. Schedule and Budget
3. Mapping
4. Load Calculations
5. Communication and Next Steps

The remainder of the day will be used for field work to investigate gaps in information including but not limited to: mapping, best management practices (BMPs), storm sewer system components, etc.

**Meeting 2 – Meeting with the Pennsylvania Department of Environmental Protection (PA DEP) in Harrisburg for the one-on-one PRP/TMDL Plan development meeting offered by Scott Arwood in an email dated December 12, 2016 a copy of which is attached hereto and made part hereof as Exhibit "A".**

**Meeting 3 – Discuss recommended BMPs to meet the required reductions with the ISC in Blair County.** The remainder of the day not used for the meeting will be used to investigate gaps in information including but not limited to: mapping, BMPs, storm sewer system components, etc.

**Meeting 4 – Final project closeout meeting**



## Scope of Work

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### *Deliverable- Meeting agendas and meeting notes*

#### **Task 2 Mapping**

The Center will organize the mapping data layers (e.g. storm sewer and existing BMP layers) provided by the ISC, and incorporate the data into the 2010 urbanized area (UA). Once complete, the Center will use available topographic and storm sewer system data to delineate the gross level sewer sheds that determine the TMDL, Appendix D, and Appendix E PRP Planning Areas for the multiple NPDES permits.

### *Deliverable- Complete Map*

#### **Task 3 Evaluating Existing BMPs**

Using information provided by the ISC, combined with field observations, the Center will calculate the reductions from existing BMPs that were installed in the TMDL and PRP Planning Area. The Center will also evaluate the potential for existing BMPs to be retrofitted for cost-effective pollutant removal towards the overall required reduction goals, which will be established in Task 4.

### *Deliverable- Summary of findings*

#### **Task 4 Pollutant Load Calculation**

The Center will utilize Chesapeake Assessment Scenario Tool (CAST) and/or Chesapeake Bay Facility Assess Scenario Tool (BayFAST) to evaluate the existing nutrient and sediment loading to each of the TMDL, Appendix D, and Appendix E PRP Planning Areas. Next, the load reductions from existing BMPs (calculated in Task 3) will be subtracted from the existing loads to determine the final pollution reduction targets for each of the TMDL, Appendix D, and Appendix E multiple NPDES permit requirements.

*There is an ambiguity in the TMDL Plan Instructions released by the PA DEP on January 12, 2017. It is not clear if the use of MapShed is required for existing load calculation for the TMDL planning area when analyzed in conjunction with a PRP. The Center is seeking feedback from PA DEP regarding this ambiguity. If PA DEP requires the use of MapShed over CAST or BayFAST, the Center will provide the written instruction from the PA DEP to the ISC. The level of effort for this task will increase due to the complexity of using MapShed compared to CAST and BayFAST. This is reflected in the Fee Proposal with two separate cost estimates for this task.*

### *Deliverable-Existing Pollutant Loading Spreadsheet and CAST/BayFast Output Files*

#### **Task 5 Recommended BMPs to Meet the Reduction Requirements**

The PA DEP TMDL Plan instructions, which are incorporated herein by this reference, state that the requirement to provide both the long-term BMP implementation plan over multiple NPDES permit terms, and the short-term reduction goals to be achieved during the upcoming multiple NPDES permit terms must be included in the submittal to DEP.

## Scope of Work

The Center will provide a list of BMPs that will meet the general nature of the long-term requirements, and a separate list of BMPs with the specific calculation details that achieve the minimum TMDL and PRP reductions for the upcoming multiple NPDES permit terms.

### *Deliverable- First Draft and Final Draft of BMP Spreadsheet?*

#### **Task 6 Final PRP**

The Center will provide a draft TMDL and Pollution Reduction Plan that includes the list of recommended BMPs for each category required by PA DEP for feedback from the ISC on or before June 30, 2017. The ISC will provide one set of consolidated comments to the Center on or before July 14, 2017. The Center will revise the draft PRP one time based on the comments provided by the ISC and will provide a final written PRP on July 31, 2017, which will include the deliverables from all prior tasks. The final PRP will serve as the basis for submittals to DEP. In the event that the Center shall not comply with the above deadlines, and the non-compliance was not caused by the ISC's failure to comply with the above deadline, then in that event, the ISC shall be entitled, in addition to any other remedy available to the ISC, to withhold any retained amount permitted pursuant to Number 2 of the Terms and Conditions, until the PRP is supplied to the ISC.

### *Deliverable- First Draft and Final Draft of Report*

#### **Fee Proposal**

The lump sum fee for Tasks 1-6 is \$52,508.93 if the use of MapShed is not required. If MapShed is required, then the total is \$57,108.93. Table 1 provides a fee breakdown by task.

<b>Table 1. Project Budget</b>		
<b>Task</b>	<b>Fee (no MapShed)</b>	<b>Fee (with MapShed)</b>
<b>Task 1. Meetings and Fieldwork</b>	<b>\$14,928.93</b>	<b>\$14,928.93</b>
<b>Task 2. Mapping</b>	<b>\$9,005</b>	<b>\$9,005</b>
<b>Task 3. Evaluate Existing BMPs</b>	<b>\$7,625</b>	<b>\$7,625</b>
<b>Task 4. Pollutant Load Calculations</b>	<b>\$5,725</b>	<b>\$10,325</b>
<b>Task 5. Recommend BMPs to Meet the Remaining Reduction Requirements</b>	<b>\$7,825</b>	<b>\$7,825</b>
<b>Task 6. Final Report</b>	<b>\$7,400</b>	<b>\$7,400</b>
<b>Total</b>	<b>\$52,508.93</b>	<b>\$57,108.93</b>

## Scope of Work

### **Terms and Conditions**

The following terms apply to this scope of work:

1. The current federal government rate for travel mileage is included in the above Fee Proposal.
2. The ISC will be billed on a monthly basis and payment is expected upon receipt. The ISC shall be entitled to withhold ten percent (10%) from each monthly payment until an acceptable PRP is supplied to the ISC by the Center.
3. All costs above and beyond the proposed amount will be billed only with prior written approval from the ISC.
4. If the source of funding is federal, a Catalogue of Federal Domestic Assistance number must be supplied to the Center before the project starts.
5. The Center shall at all times indemnify and save harmless the ISC and its officers, agents and employees on account of any claims, damages, losses, litigation, expenses, counsel fees, and compensation arising out of any claims, damages, personal injuries, property losses and/or economic damages sustained by or alleged to have been sustained by any person or entity, caused in whole or in part by the performance of the work or any negligent act or omission of the Center, its agents, employees, or subcontractors in connection with the PRP project.
6. The ISC acknowledges that the Center is a corporation and agrees that any claim made by the ISC arising out of any act or omission of any director, officer, or employee of the Center in the performance of this or any other agreement between the parties shall be made against the corporation and not against such director, officer, or employee individually unless such action and/or omission constitutes gross negligence and/or willfulness on the part of the Center. Any breach of this section shall entitle such director, officer, or employee of the Center to, in addition to all other relief, costs and reasonable attorneys' fees.
7. The ISC or the Center may terminate this Agreement at any time, by providing ten (10) days written notice to the ISC, for any reason whatsoever. In the event of such termination, the Center will be paid a pro rata amount of the compensation due for work performed up to the date notice of such termination is provided. Any and all work done by the Center on behalf of the ISC shall be the property of the ISC to use at will and shall be given to the ISC by the Center upon such payment and termination.
8. The Center shall comply with all applicable federal, state, and local laws, rules, ordinances, decisions, and executive orders dealing with affirmative action and nondiscrimination in employment and with subcontracting to disadvantaged, minority-owned, and woman-owned businesses. In addition, the Center shall comply with all policies, plans, and procedures the ISC may have with respect to such matters.
9. If this Agreement involves the expenditure of federal funds all required federal clauses are incorporated herein by reference as if fully set forth, including, but not limited to, those clauses found in Title 48 of The Code of Federal Regulations,

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Scope of Work

Chapter 1, Parts 52 and 53 of The Federal Acquisition Regulations. The Center is required to complete all forms and reports required by law and the ISC.

10. Center shall provide the ISC, prior to beginning any work with regard to the PRP, a certificate of insurance indicating coverage for Commercial General Liability, Automobile Liability and Professional Liability Insurance in the minimum amount of \$1,000,000 per claim and \$2,000,000 per aggregate and Workers Compensation in the statutory amount and an umbrella policy in the minimum amount of \$3,000,000. In addition, the ISC shall be named additional insured on primary and noncontributory basis with any appropriate endorsements included.

11. This Agreement constitutes the entire contract by the parties hereto and there are no other understandings, oral or written, relating to the subject matter hereof.

12. This Agreement may not be changed, modified, or amended in whole or in part in writing, signed by all the parties hereto.

13. This Agreement and all of its terms and conditions shall extend to and be binding upon the parties hereto and upon their respective successors and assigns.

14. This Agreement shall be governed by the laws of the Commonwealth of Pennsylvania and all actions arising from it shall be brought in the Court of Common Pleas of Blair County, Pennsylvania.


15. The Center is permitted to re-budget expense line items so long as it does not exceed 10% of the total project and so long as it does not increase total fee for the project budget.



Blair County Intergovernmental Stormwater Committee

2/1/17

Date



Hye Aeong Kwon, Executive Director  
Center for Watershed Protection, Inc.

1/31/2017

Date