



*Cumberland County
Conservation District*



*2015
Annual Report*

Cumberland County Conservation District Staff



Back Row: Jared McIntire, Brady Seeley, Carl Goshorn, Mike Lubinsky
Front Row: Vince McCollum, Jessica Cohick, Kim Falvey, Brian Jaymes

Cumberland County Conservation District Board of Directors



Wilbur Wolf, Chairman, Commissioner Barbara Cross, Don Dekcman, Glenn Kimmel, Duff George
Not Pictured: Denny Garman, Dan Mains

Picture on Front Cover: Pine Grove Furnace State Park.

CUMBERLAND COUNTY CONSERVATION DISTRICT

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DISTRICT DIRECTORS

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DISTRICT STAFF



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DISTRICT MANAGER



JESSICA COHICK
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MIKE LUBINSKY
DISTRICT ENGINEER



JARED MCINTIRE
NUTRIENT MGMT. SPECIALIST



BRADY SEELEY
CHESAPEAKE BAY TECHNICIAN



KIM FALVEY
E&S TECHNICIAN



BRIAN JAYMES
E&S TECHNICIAN



VINCE MCCOLLUM
E&S TECHNICIAN
WATERSHED SPECIALIST

EROSION AND SEDIMENTATION CONTROL PROGRAM

The priority of the erosion and sedimentation pollution control program is the protection of water resources from the impacts of accelerated erosion and sedimentation that results during an earthmoving activity. The District has been given the authority to administer the erosion and sedimentation control and the National Pollutant Discharge Elimination System (NPDES) programs by the Department of Environmental Protection (DEP).

Program technicians continue to conduct plan reviews, site inspections, complaint investigations, workshops and process NPDES permits. The District maintains a Level III enforcement delegation with the Department of Environmental Protection. The delegation requires that the District prepare, commence and execute enforcement actions in compliance with the Programs Compliance Assistance and Enforcement Manual. Since July 2013, the District continues to retain the post construction stormwater management (PCSM) delegation level. This allows the District to conduct technical reviews of the PCSM plans for Individual NPDES permits.

E&S PROGRAM ACCOMPLISHMENTS

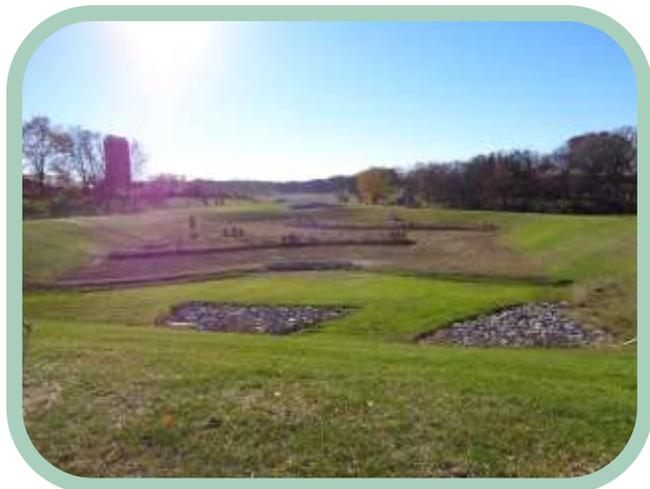
E&S Plan Reviews	101
Project Acres	2,278
Disturbed Acres	1,129
Inspections	423
General NPDES Permits	45
Individual NPDES Permits	6
Complaints	31
Civil Actions	2
E&S Plan Review Fees	\$212,025
NPDES Permit Fees	\$ 31,500
DEP Disturbed Acre Fees	\$ 68,800

TOWNSHIPS WITH MOST PLANS

Silver Spring	16
Hampden	14
Upper Allen	10
South Middleton	7
Middlesex	6

TYPES OF NPDES PROJECTS

Commercial/Industrial	26
Residential	15
Agricultural	4
Roadway/Bridges	3



A post construction stormwater infiltration basin located within the Clarius Park project in West Pennsboro Township.



A recently stabilized sedimentation basin as part of the Pennsylvania Turnpike Reconstruction Project MP 220-227. Bonded fiber matrix was used in lieu of straw mulch to protect the soil from erosion.

POST CONSTRUCTION STORMWATER MANAGEMENT

The Cumberland County Conservation District continues to review applications for NPDES Permits and the new year has brought some changes that are worth noting. A new updated Notice of Intent (NOI) is now available and must be used for all projects. This new form can be identified by the revision date of 10/2015 on the top right of the form (shown below). Be sure to take the time and read the instructions so that all revised sections of the application are filled out correctly.

3150-PM-BWEW0035 Rev. 10/2015

Application



There are several locations online to find information that will help when filling out the application. The Pennsylvania Department of Environmental Protection's eMapPA website has information relating to stream designations, watersheds, river basins, etc. The website can be accessed at <http://www.depgis.state.pa.us/emappa/>

Another location where information can be found is on DEP's WaveSilverlight website at <http://www.depgis.state.pa.us/wave/>



eMapPA



WAVE

The important information to note from these websites is the COMID number for the stretch of stream that will receive runoff from a project. The COMID is used to identify any impairments, which are located in the 2014 Integrated Water Quality Report. That report can be found at <http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/WaterQuality/Pages/Integrated-Water-Quality-Report-2014.aspx#.Vv50tvkrJhF>

This information is used to fill out Section C 5a.b. & c. of the NOI form. While information about Designated and Existing Uses is available at these sites, the official location that should be used when filling out the Application for Designated Uses is in the PA Code located at <http://www.pacode.com/secure/data/025/chapter93/s93.9o.html>

And information for Existing Uses is located at <http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/WaterQuality/Pages/ExistingUse.aspx#.VtCP1bEo6pp>

The Conservation District recommends contacting us with any questions about filling out the NOI Application.

NEW FOR 2016

On March 21st, 2016 the PNDI Environmental Review Tool was replaced with the PA Conservation Explorer Tool. More information about this can be found at <https://conservationexplorer.dcnr.pa.gov/>

CHESAPEAKE BAY PROGRAM

CONSERVATION PLANNING

The Chesapeake Bay Program completed several projects in 2015. Conservation Planning was once again completed this past year. Conservation plans for 15 farms totaling 2,818 acres were written. These plans are important tools for farmers that address erosion and identify conservation practices that can be implemented on the farm.

PRE-SIDEDRESS NITROGEN TESTING (PSNT)

For the 15th year, the Chesapeake Bay Program offered a Pre-Sidedress Soil Nitrogen Test (PSNT) to farmers in the county. This soil test is designed to prevent unnecessary nitrogen application to corn crop or identify extra nitrogen that is needed. This can help the farmer save money and increase crop yields. In addition to the added benefits to the farmer, this benefits the environment by using nitrogen fertilizers efficiently. In 2015, two interns from Shippensburg University tested 20 participating farmers' fields totaling 1,709.5 acres of corn. Out of the 108 fields tested, 9 were given a recommendation of needing extra nitrogen to meet the crop's needs. This program will be offered again in 2016.



Intern taking soil samples for PSNT



Farmers looking at the cover crop mix

COVER CROP FIELD DAY

Employees from the Conservation District assisted NRCS, Penn State Extension, and the Chesapeake Bay Foundation with a Cover Crop Field Day held at Mayfield Farm. 15 agriculture producers came out to the farm to learn about various cover crop mixes and the soil benefits that cover crops provide.

FARMER OUTREACH

Outreach visits were made to 100 Cumberland County farmers in 2015 in an effort to educate them on state requirements for farm operations. This is a continuous effort that has been ongoing for multiple years. During these visits, manure management and agriculture erosion and sediment control is discussed as well as any other topics that concern the farmer.

EDUCATION

The 5th Annual Corn Planter Clinic was held in 2015 at the Shippensburg Auction Center. There were over 130 participants including farmers, vendors, and various government agencies.



5th Annual No-Till Corn Planter Clinic

NUTRIENT MANAGEMENT PROGRAM



Nutrient Management

The Cumberland County Conservation District (CCCD) continued 2015 as a participant in Pennsylvania's ACT 38 Program (Nutrient Management) as a Level 2 delegated district. The State Conservation Commission (SCC) delegates the tasks of writing and reviewing Nutrient Management Plans and inspecting ACT 38 participating farms for compliance. CCCD is writing 4 plans for a volunteer farm and reviewed 4 plans that were approved by our Board of Directors. 12 site inspections were performed of ACT 38 participating farms to ensure the practices outlined in each farm's plans were being implemented. Nutrient Management Plans aid farmers in exactly meeting the needs of the plant's nutrients, therefore the plans continue to be the best tool for farmers to prevent pollution on farms that generate manure while maximizing crop yields. Pennsylvania encourages every farm to consider the benefits of a Nutrient Management Plan to be written, approved, and implemented. If you have interest in obtaining an ACT 38 Nutrient Management Plan, please contact us and we can discuss options to have it written.



Manure Management

The Department of Environmental Protection (DEP) continued to delegate the responsibility of outreach, education, and complaint investigation of the Manure Management Program to the Cumberland County Conservation District through 2015. Manure Management Plans (MMP) are required for every farm in Pennsylvania that generates or



uses manure. CCCD has continued to assist farmers in writing the plans and educate the farmers on the requirements of manure management at local events. The District held 2 workshops where 13 farmers were able to obtain a written plan at the end of the day. If you would be interested in receiving assistance to write a Manure Management Plan please contact our office to attend a workshop or work with the District individually. In 2015 the District investigated 9 complaints regarding manure. As Cumberland County continues to be a leader in agriculture, we must work together to achieve high yields while protecting the natural resources of the county. Both are possible through careful planning and implementation of Best Management Practices outlined in Nutrient and Manure Management Plans.

WATERSHED PROGRAM

Rain Barrels

The Conservation District's rain barrel program has evolved since it started in 2003. When it started, the District along with a local vo-ag classes, would build 50 rain barrels to sell to the public, which were distributed on an afternoon at the school. Today, we still do our own project partnering with a local school, plus we assist numerous groups with rain barrel projects, put on DIY rain barrel workshops, give presentations to citizens, and assist municipalities with their MS4 permit requirements. Our efforts have placed over 1000 rain barrels in Cumberland County. So even though one person installing a rain barrel may not noticeably improve the stormwater problems in their local watershed, the cumulative effect of over 1,000 rain barrels can be dramatic!



Rain barrel construction day at Cedar Cliff High School

Grants Activity

The District is implementing a Growing Greener grant for developing a geodatabase for the locations of Japanese Knotweed, an invasive plant. Japanese Knotweed can spread very rapidly and can completely take over riparian corridors. The web based GIS map will be used as a tool for watershed and other groups to help eradicate the invasive plant. If you see this invasive plant as you are traveling in the county, please contact the Conservation District so we can add this to our database.

Through a Growing Greener II grant, the District developed educational signs to install at the Allen Road Service Center to promote and demonstrate the benefits of stormwater best management practices (BMP's). These signs were installed at the locations of each BMP and ask questions of visitors to get them engaged in stormwater management and thinking of their own impacts. Additionally, the District developed and printed brochures that summarize the information on the signs. The signs and the brochure are great tools that enhance the effectiveness of the BMP's to promote stormwater management through a hands on experience.

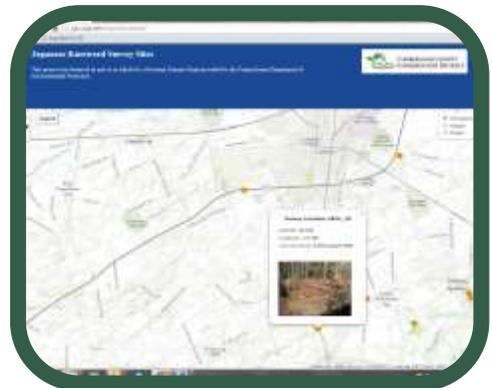


Image of the web based GIS map that was developed showing Japanese knotweed locations



Sign at the entrance to the Allen Road Service Center summarizing the stormwater BMP project



Sign placed at the rain garden at the Cooperative Extension entrance to the Allen Road Service Center

DIRT , GRAVEL & LOW VOLUME ROADS PROGRAM



LOW VOLUME ROADS

Sears Run Road
Hampden Township
Stormwater Infiltration
Total Project Value: \$37,160.49

Thompson Lane East
Lower Allen Township
Stormwater Infiltration
Total Project Value: \$10,539.43

Thompson Lane West
Lower Allen Township
Culvert Replacement
Total Project Value: \$6,058.94



Sears Run Road—Before



Sears Run Road—After
Stormwater Infiltration Trench

DIRT & GRAVEL ROADS

Creekwood Drive/Creekwood Park Access
Lower Allen Township
Drive Surface Aggregate (DSA)
Total Project Value: \$10,125.00



Placed Driving Surface Aggregate (DSA)

TREE SEEDLING SALE

Total Gross Sales— \$25,903.55

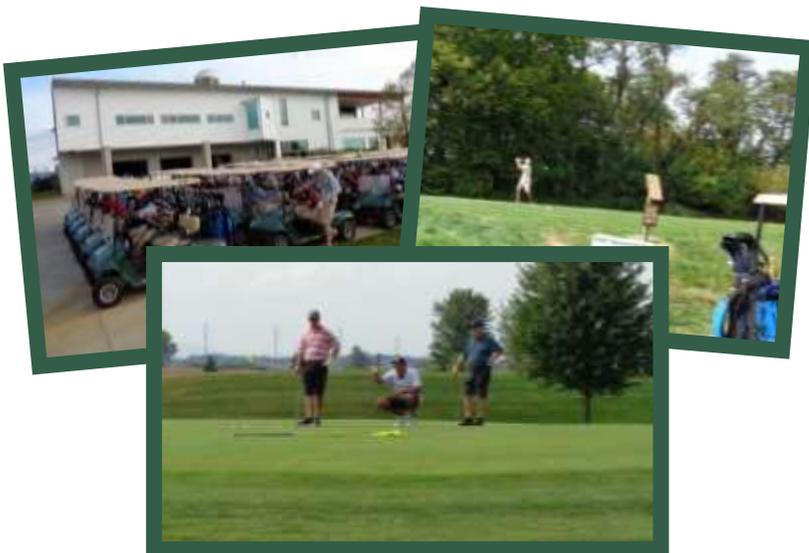
Net Profit— \$6,150.68

TREE SALE TOTALS	
Blue Spruce	820
Douglas Fir	820
White Pine	1400
Fraser Fir	770
Concolor Fir	850
White Oak	1000
Red Oak	950
Pear Pack	134
Apple Pack	240
Bluebird Boxes	26
Bulbs	137 packages
Myrtle	61 flats
Wildflower Mix	6.5 pounds
Tree Shelters	1149
Tree Stakes	602



ANNUAL GOLF TOURNAMENT

The 13th Annual Cumberland County Conservation District Golf Tournament was held at Rich Valley Golf on Friday September 21st 2015. 80 golfers came out to enjoy a round of golf and support a good cause. This year's winning team shot an impressive 19 under par 52 on a beautiful day. The District would like to thank everyone at Rich Valley Golf and Nolo's that helped make the day a success. Also a special thank you to all of our sponsors! Their contributions allow us to continue our efforts in providing scholarships to Cumberland County students. This year's event brought in over \$2,000 for scholarships and to date the tournament has raised over \$20,000. And finally, thank you to all of the golfers that came out to enjoy the day with us. We hope to see you again on September 23, 2016!



"CONSERVATIONIST" HOLE SPONSORS



New Enterprise Stone & Lime Co., Inc.
P.O. Box 77 3912 Brumbaugh Road
New Enterprise, PA 16664 www.neel.com



All proceeds from the event benefit environmental education efforts in Cumberland County.

CUMBERLAND COUNTY ENVIROTHON

Students from nine area high schools competed in the Annual Cumberland County Envirothon on Tuesday, May 5, at Pine Grove Furnace State Park, Cooke Township. The Melting Icecaps from Carlisle Area High School took first place with a score of 328; second place went to The Slimy Sculpins from Cumberland Valley High School with a score of 324; and third place went to The Hellbenders from Cumberland Valley with a score of 323. The Melting Icecaps represented Cumberland County at the 2015 Pennsylvania Envirothon at the University of Pittsburgh, Johnstown Campus, on May 19th and 20th. The team placed 34th out of 63 teams.



Students in the soil pit getting dirty

The Cumberland County Envirothon, presented by the Cumberland County Conservation District, is a fun academic event that provides high school students hands-on field experience dealing with environmental issues. Students complete five exams that test their knowledge on aquatics, forestry, soils, wildlife, and a current issue, which was *Urban and Community Forestry*. 110 students participated this year and enjoyed the mostly sunny day. Schools participating in the competition include Big Spring, Boiling Springs, Camp Hill, Carlisle, Cedar Cliff, Cumberland Valley, East Pennsboro, Mechanicsburg and Shippensburg.

Representatives from the PA Fish and Boat Commission, PA Department of Conservation and Natural Resources, PA Game Commission, the Conservation District, and Natural Resources Conservation Service administered the tests.

Once the competition was over, the students enjoyed a picnic lunch provided by the Conservation District. After lunch, the Conservation District handed out awards along with County Commissioner Barb Cross and Jennifer Holtry, Legislative Assistant from PA State Representative Will Tallman's office. The awards, made from Pennsylvania hardwood, were given to the top three teams at each station and the top three teams overall. All participating students and advisors received an Envirothon t-shirt sponsored by Adams Electric Cooperative.



2015 Envirothon champions, The Melting Icecaps from Carlisle Area High School, shown with County Commissioner Barb Cross (far left), and Jennifer Holtry (far right), Legislative Assistant from PA State Representative Will Tallman's office.

AWARD WINNERS

CONSERVATIONIST OF THE YEAR

Paul Garrett



EDUCATOR OF THE YEAR

Randy Cassell



FARMER OF THE YEAR

Thomas Witmer



CLEAN WATER AWARD

Brian Grasley, Red Barn Consulting



2016 CALENDAR OF EVENTS

CUMBERLAND COUNTY CONSERVATION DISTRICT

JANUARY:

- 1 Office Closed - New Year's Day
- 13 Water Testing – District Office
- 18 Office Closed - Martin Luther King Day Holiday
- 26 Board Meeting/Cooperating Agency Luncheon
@ District Office 9:00 AM
- 28 Manure Management Workshop

FEBRUARY:

- 9 & 10 PACD State Wide Conference – Ramada Inn, State College
- 10 Water Testing – District Office
- 15 President's Day Holiday – Office Closed
- 25 Manure Management Workshop

MARCH:

- 2 E&S/NPDES Workshop for Engineers
w/ Franklin & Fulton Counties in Shippensburg
- 9 Water Testing – District Office
- 22 Board Meeting – District Office - 7:30 PM
- 25 Office Closed – Good Friday
- 28 Deadline for Tree Sale Orders

APRIL:

- 13 Water Testing – District Office
- 14 Tree Seedling Bundling – AM
- 14 & 15 Tree Seedling Distribution – Allen Road
- 26 Board Meeting – District Office - Conference Call 7:30 AM

MAY:

- 3 County Envirothon – Kings Gap State Park
- 11 Water Testing – District Office
- 24 & 25 PA State Envirothon – Susquehanna University
- 24 Board Meeting – District Office 7:30 PM
- 30 Office Closed - Memorial Day Holiday

JUNE:

- 7 & 8 District Manager's Summit – Ramada Inn, State College
- 8 Water Testing – District Office
- 16 Jubilee Day – Mechanicsburg/Manned District Display
Board Meeting – District Office – Conference Call 7:30 AM

JULY:

- 4 Independence Day Holiday – Office Closed
- 13 Water Testing – District Office
- 26 Board Meeting – District Office 7:30 PM
- 27 & 28 PACD State Wide Conference – Ramada Inn, State College

AUGUST:

- 10 Water Testing – District Office
- 23 Board Meeting/District Picnic – 6:00 PM Location TBD

SEPTEMBER:

- 5 Office Closed - Labor Day Holiday
- 14 Water Testing – District Office
- 23 Annual Conservation District Golf Tournament
@ Rich Valley Golf Course
- 27 Board Meeting – District Office 7:30 PM

OCTOBER:

- 12 Water Testing – District Office
- 25 Board Meeting – District Office 7:30 PM

NOVEMBER:

- 9 Water Testing – District Office
- 11 Office Closed - Veteran's Day Holiday
- 24 Office Closed - Thanksgiving Day Holiday
- 25 Office Closed - Day after Thanksgiving Holiday

DECEMBER:

- 8 No-Till Corn Planter Clinic
- 13 Board Meeting – District Office 8:00 AM
- 14 Water Testing – District Office
- 23 Office Closed - Christmas Eve Holiday
- 26 Office Closed - Christmas Day Holiday

