

## Allen County Annual Report to IDEM Addendum Text document

### Rule 13 - MS4 Annual Report: Attachment A

**Name: Matt Jarrett**

**Date: 3/8/2021**

Part D: PROGRAM MANAGEMENT - 327 IAC 15-13-18

**16. Provide a summary of the following program management activities performed during the reporting period:**

**a) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.**

Co-permittee contacts for Allen County co-permit:

- 1.) Allen County – Matt Jarrett, MS4 Coordinator  
Allen County Surveyor's Office  
200 East Berry Street, Suite 350, Fort Wayne, IN 46802  
260-449-3612; [matt.jarrett@co.allen.in.us](mailto:matt.jarrett@co.allen.in.us)
  
- 2.) Town of Leo-Cedarville – Patrick Proctor, Town Manager  
13909 Pony Express Run, P.O. Box 408, Leo, IN 46765  
260-627-6321; [proctor@leocedarville.com](mailto:proctor@leocedarville.com)
  
- 3.) Town of Huntertown - Beth Shellman, Town Manager  
15617 Lima Road, P.O. Box 95, Huntertown, IN 46748  
[townmanager@huntertown.in.gov](mailto:townmanager@huntertown.in.gov)

**b) Identify changes to the MS4 area boundaries, including areas added or lost to the MS4 area via annexation or other similar means.**

No changes to the MS4 area boundaries took place.

**c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.**

As provided at <https://www.in.gov/idem/nps/2647.htm>, there have been no changes to the Finalized IDEM 303(d) List of Impaired Waters for 2020 as compared to the approved IDEM 2018 303(d) list of impaired waters.

There have been no additional approved TMDLs added for 2019-2020 for any waterbodies within Allen County as provided on the IDEM website.

The Flatrock Creek/Auglaize River Watershed Management Plan Project Committee is currently doing water sampling and testing, stream bank erosion assessments, and a filter strip inventory for the Flatrock Creek Watershed in southeastern Allen County as part of preparing the watershed management plan for approval. Since water sampling sites have been established where the stream comes into Indiana from Ohio and where it exits back into Ohio, the water sampling test data will help provide additional water quality characterizations within this watershed and show what pollutants are coming into the watershed from Ohio and what pollutants are being added here in Allen County before the stream meanders back into Ohio.

The sampling will also identify how many samples of certain pollutant and other testing elements exceed the water quality target levels.

The Allen County Soil and Water Conservation District, the City of Fort Wayne, and the Upper Maumee River Watershed Group performed water quality sampling and testing within the Maumee River and its tributaries at various locations within Allen County. These test results will help provide a picture as to how the various test parameters have changed in value/concentration since the baseline testing was performed. Parameters that were tested include DO, E. Coli, Nitrate, pH, Phosphorus, Temperature, TDS, Turbidity, Alachlor, Atrazine, Metolachlor, Macroinvertebrates, and Habitat.

**d) Provide updated receiving water information completed during the reporting period if applicable.**

The following drain outfalls were newly identified within the Allen County MS4 area during the reporting years of July 2018-2020 as a result of new construction:

<u>Outfall I.D.</u>	<u>Township</u>	<u>Subdivision</u>	<u>Pipe Material</u>	<u>Pipe Size In Inches</u>	<u>Receiving Water</u>
ab08gln0P3	Aboite	Glen Hollow I	HDPE	30	Beal Taylor Ditch
ab06syv11d	Aboite	Sycamore Village	PVC-SDR35	12	Beal Taylor Ditch
ab06syv22d	Aboite	Sycamore Village	PVC-SDR35	12	Schneider Drain
ab05pml4Wx	Aboite	Palmira Lakes I	HDPE	24	Noyer Drain
pe36stp0J5	Perry	Steeplechase at Parkview	RCP	15	Martin #1 Drain
pe36stp3Py	Perry	Steeplechase at Parkview	HDPE	12	Martin #1 Drain
pe16whr0L9	Perry	Whisper Rock	HDPE	24	Dunten Drain
pe16cov0P1	Perry	Cottages of Verano	HDPE	12	Dunten Drain
pe16grd01a	Perry	Gump Road Drainage	RCP	24	Dunten Drain
pe16grd02a	Perry	Gump Road Drainage	RCP	24	Dunten Drain
wa19sws028	Perry	Sweetwater Sound	HDPE	48	Roadside Ditch
pe29qlc0P5	Perry	Quail Creek V	HDPE	15	Rodenbeck #2
pe29wet002	Perry	Carroll Oaks Outfall	HDPE	24	Rodenbeck #2
pe29qlc2sp	Perry	Quail Creek IV	HDPE	12	Rodenbeck #2
cc06dhwF8b	Cedar Creek	Deer Hollow	RCP	30	Paul Freeman Drain
sj04wcr753	St. Joseph	Wood Creek Reserve	HDPE	12	Natural Drain

sj04wcr751	St. Joseph	Wood Creek Reserve	HDPE	12	Natural Drain
sj04wcr401	St. Joseph	Wood Creek Reserve II	HDPE	12	Natural Drain
wa31bnc0F3	Washington	Buckner's Crossing IV	HDPE	18	Maria Flaugh Branch
ab18mdt13c	Aboite	Mediterra II	HDPE	18	Natural Drain
ab18hpr10a	Aboite	Heron Preserve IV	HDPE	30	Squaw Creek
ab18her0c3	Aboite	Heron Preserve II	RCP	12	Squaw Creek
ab18her04f	Aboite	Heron Preserve II	RCP	15	Squaw Creek
ab18her0m6	Aboite	Heron Preserve I	CMP	24	Natural Drain
sj04aep01a	St. Joseph	AEP Lay Down Yard	HDPE	15	Natural Drain
pe29she14C	Perry	Shearwater V	RCP	48	Rodenbeck #2
ab23php001	Aboite	Physicians Health Plan	HDPE	12	Natural Drain
ab24pmb004	Aboite	Professional Medical Building	HDPE	12	D'Andrea Drain
ab18hrn5px	Aboite	Heron Preserve IV	HDPE	15	Squaw Creek
pe23sgp001	Perry	Sage Pointe	HDPE	15	Janus Drain
pe25cen704	Perry	Centennial Highlands	HDPE	24	Centennial Highlands
AB05grhp2a	Aboite	Greyhawk I	HDPE	12	Noyer Drain
AB05grhp1a	Aboite	Greyhawk I	HDPE	15	Noyer Drain
LK36stfpoA	Lake	Straford Forest VIII	HDPE	15	Linnemeier-Lunz
LK36stfpoB	Lake	Straford Forest VIII	HDPE	15	Linnemeier-Lunz
WA32wel0G3	Washington	Wellington Reserve III	HDPE	24	Natural Drain
AB05grhE22	Aboite	Greyhawk II	HDPE	12	Noyer Drain
ab06wbv611	Aboite	Williamsburg Village	RCP	30	Beal Taylor Ditch
north_barn01e	Perry	North Highway Barn	HDPE	10	Swale
pe26pvp716	Perry	Parkview North Parking Lot	HDPE	12	Natural Drain
sj13cmc02a	St. Joseph	Central Church	HDPE	12	Grice #2 Drain
pe28tho842	Perry	Tim Hortons	HDPE	15	Roadside Ditch
pe34oap01a	Perry	Old Auburn Place	CMP	48	Roy Delagrang Ditch
pe21whr2of	Perry	Whisper Rock V	PVC-SDR35	15	McComb Drain
AB08chrPB3	Aboite	Coves of Hawks Ridge	HDPE	12	Beal Taylor Ditch

PE28tusP1E	Perry	Tuscany III	HDPE	12	Roy Delagrange Ditch
PE28tusPGO	Perry	Tuscany III	HDPE	12	Roy Delagrange Ditch
cc16llcP3z	Cedar Creek	Lakes of Leo Creek	HDPE	24	Beightle - Nettlehorst Ditch
cc28ccv009	Cedar Creek	Cedar Creek Vet Clinic	HDPE	8	Roadside Swale
pe29fws701	Perry	Fort Wayne Storage	HDPE	36	Rodenbeck No. 2
pe21wvl0A2	Perry	Watervale	HDPE	18	Wetland Lake
pe22bta0M1	Perry	Bonterra Apartments	HDPE	36	McComb Drain
pe22bta0O1	Perry	Bonterra Apartments	HDPE	15	McComb Drain
pe22bta0N1	Perry	Perry Lakes	HDPE	24	McComb Drain
pe22bta0TL	Perry	Bonterra Apartments	VCP	8	McComb Drain
pe22bta2TL	Perry	Bonterra Apartments	HDPE	15	McComb Drain
pe15cbyP1z	Perry	Canyon Bay	HDPE	15	Sunset Lake
pe25cen602	Perry	Centennial Highlands	HDPE	24	Centennial Highlands
pe16tbr0G1	Perry	Timber Ridge	RCP	12	Timber Ridge
pe26stp036	Perry	Storypoint	HDPE	12	Roadside Ditch
pe26stp3UN	Perry	Storypoint	RCP	30	Belot Drain
wa08flI017	Washington	Fullers Landing	HDPE	12	Brown #2
wa08flI27A	Washington	Fullers Landing	HDPE	42	Roadside Ditch
wa35acj033	Washington	Allen County Juvenile Center	HDPE	15	Spy Run Creek ND
LK36stf0Cb	Lake	Stratford Forest IX	HDPE	12	Linnemeier-Lunz
pe09qry3Px	Perry	The Quarry	HDPE	15	Natural Drain
ab23cfl758	Aboite	Canal Flats	HDPE	12	Natural Drain
ab23cfl734	Aboite	Canal Flats	HDPE	12	Natural Drain
ab23cfl749	Aboite	Canal Flats	HDPE	12	Natural Drain
ab23cfl751	Aboite	Canal Flats	HDPE	15	Natural Drain
ab23cfl721	Aboite	Canal Flats	HDPE	12	Natural Drain
pe21fhIP10	Perry	Fox Hollow I	HDPE	30	McComb Drain
pe21aspQQ3	Perry	Aslan Passage II	HDPE	24	Willow Creek Br. 7
pe21aspII3	Perry	Aslan Passage I	HDPE	18	Willow Creek Br. 7

pe20hcc131	Perry	Highlands at Copper Creek	HDPE	30	Willow Creek Br. 7
pe36voc24c	Perry	Village at Oak Crossing	HDPE	24	Roadside Ditch
pe16tbr10K	Perry	McComb Tile Reconstruction	HDPE	30	McComb Drain
pe27egv000	Perry	Evergreen Village	HDPE	12	Roadside Ditch
pe27egv049	Perry	Evergreen Village	RCP	12	Roadside Ditch
pe08rol0P1	Perry	Rolling Oaks	HDPE	15	Willow Creek Main Drain
pe09cro00J	Perry	Cliffs of Rolling Oaks	HDPE	15	Willow Creek Main Drain
PE08wrnEPX	Perry	Willow Ridge North	HDPE	12	Willow Creek Main Drain
pe08cas16b	Perry	Cascata Estates	HDPE	15	Swale
pe20rcc0M1	Perry	Rapids of Copper Creek	HDPE	12	Willow Creek Br. 7
pe20ccc0A6	Perry	Coves of Copper Creek	HDPE	24	Willow Creek Br. 7
AB05grh0C6	Aboite	Greyhawk III	HDPE	48	Noyer Drain
er35dpt5Pz	Eel River	Drakes Pointe	HDPE	24	Benward Branch Ditch
er35cck6Px	Eel River	Cobble Creek	HDPE	15	Benward Branch Ditch
cc30eagS23	Cedar Creek	Eagle Rock I	HPXR	24	Natural Drain
wa31bnc0H1	Washington	Buckner's Crossing V	HDPE	12	Maria Flough Branch

**e) Identify funding sources (utility fees, grants, enforcement fines, etc.) utilized for MS4 program implementation during this reporting period.**

The Allen County MS4 program obtains its funding from the County General Fund for materials, equipment, and supplies in addition to continued departmental budgetary funding for salaries and benefits for MS4 program staff.

**f) Provide a list of new active industrial sites identified during this reporting period.**

The following new Active Industrial Facilities were added within the county MS4 area for the 2019-2020 reporting period:

- i.) Amazon Distribution Center - 9798 Smith Road, Fort Wayne, IN 46809; phone: 800-531-8152; SIC: 4225

The following new Active Industrial Facilities were added in areas near the county MS4 area:

- i.) Alro Steel Warehouse - 2912 W. Pleasant Center Road, Yoder, IN 46798; phone: 517-787-5500; SIC 4226
- ii.) Northern Indiana Anodize - 13010 Bluffton Road, Yoder, IN 46798; phone: 260-471-5718; SIC 3471

**g) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.**

None to report.

**h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.**

The Allen County Surveyor's Office has a Complaint Flow Process document that outlines step-by-step office procedures to handle complaints received by the office.

Allen County received several complaints and public informational requests concerning poor erosion control during this reporting period. The county promptly responded to these complaints and informed the caller of the subsequent action taken on each complaint or request. The following illustrate the details and subsequent actions taken by the county on each complaint or request:

**Erosion Control Complaints**

**1. Complaint Received (12/24/2018)**

Caller: Jeff Weaver

Location: Timber Ridge Subdivision

Caller is concerned about mud and excess gravel on his street due to continued homebuilding in this fairly new subdivision.

**Resolution:**

ACSO called the developer and the homebuilder for the homes within the street of Mr. Weaver and it was determined that a landscaper for a home near Mr. Weaver was responsible for the mud. Mr. Weaver was going to contact the necessary party about the mud.

**2. Complaint Received (1/9/2019)**

Caller: Robert Linsky

Location: Wetland south of 9412 Maysville Road

Caller complains that the apartment complex to the south is draining a wetland and placing fill in the wetland.

**Resolution:**

ACSO investigated this site and agreed that if this area is a wetland, a violation of fill is definitely occurring by the property owner. ACSO called IDEM to report the violation and emailed pictures and the address to them. The IDEM wetlands section said they would investigate this potential violation.

### **3. Complaint Received (2/6/2019)**

Caller: Bill Eviston

Location: 12732 Hand Road

Caller complains of muddy water flowing to road, then wetland, and then the farm field from the Preserves of Carroll Creek West Section II subdivision under construction. Caller also complains that site silt fence is not trenched in and there is no protection around topsoil mounds.

#### **Resolution:**

Site was inspected by the Surveyor's Office. There was no observance of offsite sedimentation into wetland or farm field to the north. A site inspection report was completed with noted erosion and sediment control issues detailed in the inspection report. Report was sent to the developer. Mr. Eviston was called with the results of the inspection.

### **4. Complaint Received (4/5/2019)**

Caller: Leon Gilbert

Location: 3909 Crawford Road

Subdivision in Question: Sage Pointe

Caller complains of muddy water flowing onto his property and into his pond from a subdivision that is under construction next to his home. He wants someone to check the erosion control on this site.

#### **Resolution:**

Site was inspected by the Surveyor's Office. Erosion and sediment control deficiencies were found on the site and an erosion and sediment control inspection report was completed and sent to the developer.

### **5. Complaint Received (4/22/2019)**

Caller: Ann Clary

Location: Stratford Forest IX

Caller complains that there is mud running into the open ditch as a result of the Stratford Forest IX ongoing construction of this new section. Mud is running into their downstream basin from this ditch.

#### **Resolution:**

The Surveyor's Office met Ann and the Homeowner's Association President on site to discuss the issues and do a walk-around inspection of the site. Deficiencies were noted and pictures were taken. An inspection report was completed noting the site issues and was sent to the developer. A copy was provided to Ann.

### **6. Complaint Received (8/1/2019)**

Caller: Mike Claybaugh

Location: Aboite/W. Hamilton Road

Caller complains of erosion getting into natural ditch.

**Resolution:**

Sediment in the water was tracked back to a pond being installed where the property owner had dewatered the pond so he could finish the construction and grade within the pond. His grading work was complete and so the flow of sediment going to stream was ceased. ACSO instructed pond property owner to get the pond site stabilized immediately (within the next 2 weeks).

**7. Complaint Received (1/8/2020)**

Caller: Resident of Aslan Passage Subdivision

Location: Aslan Passage Subdivision

Caller complains about mud on the streets and mud getting into the storm drains due to individual lot building construction.

**Resolution:**

The Allen County Surveyor's Office sent notice to the project site owner that the streets needed to be swept and inlet protection had to be installed. The project site owner responded that he would take care of the issues.

**8. Complaint Received (1/15/2020)**

Caller: Patrick Burton – IDEM Air Permits

Location: 7737 West Jefferson Blvd.

Caller provided photos of contractor on a new construction site dumping excess water with the excavator bucket onto neighboring property to flow down the swale to an inlet. The concern is that the water is sediment laden and flowing to the nearby storm system.

**Resolution:**

Allen County Surveyor's Office (ACSO) called the site foreman the next day. The foreman knew of the issue and had reprimanded the employee. ACSO explained to foreman that a better method was needed for disposing of excess water and also went over the site erosion and sediment control deficiencies.

**9. Complaint Received (2/24/2020)**

Caller: Kyle Quandt - NIRCC

Location: Rolling Oaks Subdivision

Complainant states that a crossing was established within the Willow Creek Main Drain without benefit of the necessary permits. Crossing area needs additional erosion and sediment control measures.

**Resolution:**

The Allen County Surveyor's Office investigated the complaint and confirmed the issue. The Surveyor's Office talked to the developer and engineer about the complaint and called the contractor for the project. The contractor was very apologetic and said that he had a staff meeting on this issue. The contractor hired CLS Landscaping to come out and add additional stabilization. The owner of CLS called the Surveyor's Office and said they would go out the next day and take care of the additional stabilization and clean-up and send pictures.



#### **10. Complaint Received (4/3/2020)**

Caller: Mike Felder

Location: 902 Sicilian Passage, Sycamore Lakes Section V

Caller complains of concrete washout being dumped along the street and within open lots. He would like this issue to be addressed. He also provided pictures showing the issue.

#### **Resolution:**

The Surveyor's Office contacted the project site owner and informed him of the issue. The owner was asked to input a concrete washout area if one was not installed and to inform all concrete truck drivers to utilize the washout area. The complainant was asked to call back if the issues persisted so further actions could be taken.

#### **11. Complaint Received (6/10/2020)**

Caller: IDEM Complaint – Mrs. Ringenberg

Location: 12705 State Line Road – AEP new substation

Caller has concerns regarding an AEP substation that is being built. As part of this they have constructed a retention pond which the complainant says is damaging wetlands and causing flooding issues. She says they are also installing some sort of drainage tile that is about  $\frac{3}{4}$  of a mile in length. All of this construction she says is affecting her well, artesian flow.

#### **Resolution:**

The Surveyor's Office inspected the site and submitted the issues to the AEP site foreman. Additionally, Drew Gamble of IDEM inspected the site and issued an inspection report with a few issues to be corrected.

#### **12. Complaint Received (8/19/2020)**

Caller: Rob Hathaway

Location: Eagle Rock Subdivision – Union Chapel Road

An inspector for DLZ provided pictures of inlet protection measures within this new subdivision needing maintenance within the streets. Sediment has accumulated in the streets around the inlet protection mats.

#### **Resolution:**

The Surveyor's Office forwarded the pictures to the site developer in charge of erosion control. The developer responded back that he would take care of the issue.

#### **13. Complaint Received (10/22/2020)**

Caller: Del Kerney

Location: Stone Canyon Subdivision

Caller complains that dirt from neighboring subdivision that is under construction has been placed within or eroded into his backyard swale and is blocking flow within the swale.

**Resolution:**

ACSO inspected this site and observed some dirt had been placed or eroded into Mr. Kerney's backyard swale. The silt fence was down allowing the sediment to slide down the embankment. ACSO sent an email to the developer requesting they address the issue and move the dirt out of the swale to open up the blockage. The developer responded with an email request to his landscaper who agreed to rectify the issue the next day.

**14. Complaint Received (12/3/2020)**

Caller: City of Fort Wayne

Location: Pro Fed Bank – Village at Oak Crossing & Copper Horse Subdivision on Tonkel Road

The City of Fort Wayne inspector drove by both of these sites and noticed silt fence down at Copper Horse along the road and lack of stabilization at front of bank site.

**Resolution:**

The Allen County Surveyor's Office investigated the complaint and confirmed the silt fence issue at Copper Horse. The Surveyor's Office did not see any issues at the bank site as it looked as if sod had just been installed. The developer for Copper Horse was notified of the silt fence issue via a report and pictures.

**Illicit Discharge Complaints:**

Allen County received several complaints from the public concerning illicit discharges. The county promptly responded to these complaints and informed the caller of the subsequent action taken on each complaint. All complaints from citizens concerning illicit discharges are logged by the Allen County Surveyor's Office in a Microsoft Access Database by the Surveyor's Office Administrative Assistant. Queries can be performed to isolate a complaint or certain types of complaints. A certain address can also be searched for in our historical records to determine whether past violations were found at a particular site. The following illustrate the details and subsequent actions taken by the county on the illicit discharge complaints received during this reporting period:

**1. Complaint Received (5/2/2019)**

Caller: Anonymous

Location: 4936 Cedar Lake Drive

Caller complains that large piles of animal waste are within 10 feet of a public roadway and waste residue is running off into a nearby pond that kids swim within. The pond then drains into the Cedar Creek watershed.

**Resolution:**

ACSO investigated this site and talked to the owner. There was a horse manure pile on the lawn along the drive that may be running into the pond during rain events. Owner said pile is a result of waste

accumulation over the winter as he runs a place to board horses. Owner said he was going to remove pile within the week as it will be loaded into his dumpster for removal. In the future he plans to construct a three-sided concrete structure to store the manure. ACSO told him to make sure there was a buffer so it couldn't run into a conveyance and that removal within a week was acceptable.

## **2. Complaint Received (5/17/2019)**

Callers: Keith Arnold/Debra Broom

Location: 3026 N. Webster Road & 16910 Slusher Road

Callers complain that neighbor two doors down to the south (2912 N. Webster Road) has a pile of manure and when it rains, water from the south runs onto their property with the manure residue. The manure is being built up into a wall to stop the water from coming onto the owner's yard. Now the water is running onto them and sitting in their yard.

### **Resolution:**

ACSO investigated this site and observed the manure pile. The ACSO sent the owner a letter asking the owner to remove the manure from the site to prevent pollution of the county's storm conveyance system. The owner called the ACSO and discussed this issue. The owner agreed to remove the pile from the site. In the future the owner will berm around the pile or provide cover over the pile.

## **3. Complaint Received (5/20/2019)**

Caller: ACSO Inspector

Location: 732 E. Hamilton Road

ACSO inspector discovered a manure pile along the ditch embankment of the Snyder #3 county regulated drain.

### **Resolution:**

The ACSO sent the owner a letter asking the owner to remove the manure from along the ditch to areas away from any storm conveyance to prevent pollution of the county's storm conveyance system. The owner called the ACSO and said the pile was a grain seed pile as they had cleaned out their grain bin. The owner agreed to remove the pile from along the ditch and spread in his field.

## **4. Complaint Received (5/20/2019)**

Caller: Robert Gregory

Location: 4805 Woods Road

Caller complains of a horse manure pile along the neighbor's property line that he fears will cause polluted runoff to run onto his property during heavy rain events and flow into his pond.

### **Resolution:**

ACSO inspected the site and saw very minimal amounts of horse manure along the property fence line. The flow of water appeared to be running toward the horse stable and did not appear to be running to the neighboring pond. The pond had a two-foot berm around it preventing flow to it. ACSO talked to the

property owner that had horses and requested that she keep the horse manure on the upland areas of her stable during times such as now where we are getting a lot of rain to prevent it from being in standing water of the lowland areas. There was no visual evidence of any manure entering into a conveyance system.

**5. Complaint Received (6/14/2019)**

Caller: Bonnie Weibel  
Location: 618 Chesterton Trail

Caller complains that wetlands behind her house have green moss with yellow foam on top of the water. They cut down trees on east side near wetland to install a bike trail and caller is concerned that these actions have affected the wetland.

**Resolution:**

This complaint is within the Fort Wayne city limits and was forwarded to the City of Fort Wayne.

**6. Complaint Received (6/18/2019)**

Caller: Vicki Gilbert  
Location: Sunset Lakes

Caller complains of a brown slimy substance coming into the Sunset Lake that she believes is coming from the Canyon Bay subdivision. Caller wants the subdivision to clean out their hydrodynamic separator unit.

**Resolution:**

ACSO will contact the Canyon Bay Homeowner's association and try and have them bring out a vac truck to clean out and do maintenance on their water quality separator unit.

**7. Complaint Received (7/26/2019)**

Caller: Darlene Hackett  
Location: 1710 Shakespeare Blvd.

Caller complains that neighbors are dumping Japanese beetles into the storm drain behind her house.

**Resolution:**

ACSO did not see evidence of any issues on this site.

**8. Complaint Received (9/10/2019)**

Caller: Richard Kryder  
Location: 2603 Hamilton Road

Caller complains that farmer who owns ground behind him is going to dump hog manure on the fields behind his home. The runoff will come toward his home and then to the creek. Wants some help on this matter.

**Resolution:**

ACSO provided Mr. Kryder with the phone numbers for the Indiana State Chemist Office who regulates manure/fertilizer application and the IDEM Spill Response Team.

**9. Complaint Received (11/27/2019)**

Caller: City of Fort Wayne

Location: Walmart Milk Processing Plant (2150 W. Pleasant Center Road)

Caller states that there is a reported spill at the plant.

**Resolution:**

ACSO called the plant to find additional information. The plant's wastewater pit overflowed due to their maintenance staff installing a level sensor incorrectly. The discharge overflowed to the retention pond. Test results within the pond revealed normal pH ranges within the trapped water. A report was completed that described the issue and the future procedures to be input to prevent another overflow.

**10. Complaint Received (12/2/2019)**

Caller: IDEM Spill Response Team

Location: I469 Bridge over St. Marys River

Caller complains of sewage being discharged into the St. Marys River and sent a picture of the concerned area.

**Resolution:**

ACSO forwarded this complaint over to the County Health Department for investigation.

**11. Complaint Received (6/10/2020)**

Caller: Tyler King

Location: 1610 Clifty Parkway, Fort Wayne, IN 46808

Caller submitted a complaint to IDEM stating that National Demolition and Contracting, LLC washed out concrete residuals and dumped this waste product onto the street in front of his house after completing a patio project for him at his home. This waste material is being tracked down the street. IDEM has asked the county to investigate this complaint and respond to it.

**Resolution:**

The Allen County Surveyor's Office inspected the street in this area and confirmed concrete washout deposits on the street. The ACSO sent a Notice of Violation letter to National Demolition and Contracting informing them that this is an illicit discharge violation and asking them to clean up the remaining materials within the street and to refrain from dumping these materials into the street in the future. A copy of this letter was provided to IDEM.

**12. Complaint Received (7/20/2020)**

Caller: Anonymous Caller – complaint forwarded from IDEM  
Location: 9962 Diebold Road – Berger Auto

Caller states that Berger Auto is throwing used oil filters into the dumpster.

**Resolution:**

ACSO inspected this site on 7/29/2020. ACSO observed used oil filters in the dumpster but they appeared to be properly drained. ACSO talked to the Service Manager at Berger Auto and he showed the process they take for handling this. They let the oil filter drain onto a fiber mat that drains to a container below it. They are allowed to drain most of the day. The used oil is then drained from the container to a drum. An outside agency comes to pick up the used oil drums. The drained oil filters are discarded in the dumpster. IDEM confirmed this is a permissible process. There is no issue on this site.

**13. Complaint Received (8/27/2020)**

Caller: Mike Rasbury  
Location: 9407 Aboite Road

Caller states that there is something polluting the Graham McCulloch Ditch at Aboite Road. He has been seeing floating pieces for approximately a month or so. He's not sure if someone emptied their septic tank or what it is.

**Resolution:**

The Surveyor's Office inspected this ditch on 9/3 at the location stated and also a half mile upstream and did not see any floating pieces or anything unusual.

**14. Complaint Received (8/31/2020)**

Caller: Richard Annis  
Location: Buckner Park

Caller complains of dark green/blue coloring in Flaugh Ditch on the northeast side of the park.

**Resolution:**

The Allen County Surveyor's Office inspected the Maria Flaugh Ditch at the northeast corner of Buckner Park. The Surveyor's Office noticed blue-green coloring in the ditch coming from the north. The Surveyor's Office tracked the source of the coloring to the Buckner's Crossing subdivision detention ponds. One of the ponds is an inline pond with the stream. The Surveyor's Office called the HOA President of Buckner's Crossing (Cynthia Wilkin, Sturges Development Group, (426-9800)) and asked her about the pond treatment. She stated that they have Aquatic Management Company from Bluffton, IN treat their ponds. The ACSO asked her to check with this company to make sure they applied correctly and ask them to make sure they apply environmentally friendly products at times when the ponds are low and no rain is in the forecast. A similar complaint was issued at this location in 2013 from pond chemical/dye application from a different subdivision and IDEM, IDNR, and the State Chemist Office said there would be minimal impacts downstream from this type of dye and there were no violations they could issue with this.

**15. Complaint Received (10/2/2020)**

Caller: Peter Beckman  
Location: 5614 W. Cook Road

Caller states that there is raw sewage under trailer that he lives in. It smells like sulfur.

**Resolution:**

The Allen County Surveyor's Office investigated this complaint on 10/5/2020. The ACSO didn't see any signs of sewage or any smell. The ACSO called the person complaining and he stated that something was blocked or not functioning within his trailer and sewage was backing up. He stated he just called the Health Department for some advice. The ACSO informed him he would have to fix it and pay for the costs; our office does not perform repairs for this.

**16. Complaint Received (11/6/2020)**

Caller: Darlene Hackett  
Location: Stratford Forest Subdivision

Caller complains that storm drain in her backyard has white foamy stuff around it in the grass and has a smell.

**Resolution:**

The Surveyor's Office inspected this site on 11/17/20 and did not find any evidence of foam or a smell. The storm drain system in question had very little flow. The outfall of this system did not have any evidence of an illicit discharge. There were not any sump pump drains going into this drain structure and there was no evidence of any sewage or anything else in the area.

**Enforcement Actions Taken**

**1.) Complaint Received (4/5/2019)**

Caller: Tim Hamilton  
Location: 17311 Lochner Road  
Subdivision in Question: Tullymore Run

Caller complains of muddy water entering the open ditch from a subdivision that is under construction upstream from his home. He wants someone to check the erosion control on this site.

**Resolution:**

The Allen County Surveyor's Office inspected the site on 4/8/2019. It was discovered that the contractor was de-watering the detention basin and pumping sediment-laden flows to the stream. A **Notice of Violation Stop Work Order** was issued to the developer. The developer was also called and informed of the issue. He said he would purchase a de-watering bag and install rock check dams and geo-textile matting to address the issue. They were also going to slow the rate at which they were pumping. The stop work order was lifted once these BMPs were implemented.

**2. Complaint Received (6/10/2020)**

Caller: Tyler King

Location: 1610 Clifty Parkway, Fort Wayne, IN 46808

Caller submitted a complaint to IDEM stating that National Demolition and Contracting, LLC washed out concrete residuals and dumped this waste product onto the street in front of his house after completing a patio project for him at his home. This waste material is being tracked down the street. IDEM has asked the county to investigate this complaint and respond to it.

**Resolution:**

The Allen County Surveyor's Office inspected the street in this area and confirmed concrete washout deposits on the street. The ACSO sent a **Notice of Violation Letter** to National Demolition and Contracting informing them that this is an illicit discharge violation and asking them to clean up the remaining materials within the street and to refrain from dumping these materials into the street in the future. A copy of this letter was provided to IDEM.

**3. Complaint Received (7/29/2020)**

Caller: Allen County Surveyor's Office

Location: The Quarry Section II – Cedar Canyon Road

The Allen County Surveyor's Office inspected The Quarry Section II site and discovered massive earth disturbing activities on the site prior to plan approval of the Stormwater Pollution Prevention Plan and prior to any NOI submittal.

**Resolution:**

The Allen County Surveyor's Office issued a **Notice of Violation Stop Work Order** to the developer and the site contractor. All grading work ceased on the project site until the Stormwater Pollution Prevention Plan was approved and the NOI was submitted.

**i) Other:**

The Allen County Co-Permit keeps a current list of Retail Gas Stations in the Allen County MS4 Area as follows:

<b>Name</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
Clark Gas Station	14836 State Road 1	Leo	Indiana	46765
BP Gas Station	14309 Leo Road	Leo	Indiana	46765
Marathon Gas Station	15509 Lima Road	Huntertown	Indiana	46748
Shell Gas Station	10226 Old Leo Road	Fort Wayne	Indiana	46825
Marathon Gas Station	10330 Old Leo Road	Fort Wayne	Indiana	46825
Sunoco Gas Station	12635 Coldwater Road	Fort Wayne	Indiana	46845
Rickers Gas Station	12012 Lima Road	Fort Wayne	Indiana	46845
Marathon Gas Station	8717 U.S. Highway 24 West	Fort Wayne	Indiana	46804
BP Sparky Mart Gas Station	4200 Bostick Road	Fort Wayne	Indiana	46816



Marathon Service Center	433 Lower Huntington Road	Fort Wayne	Indiana	46819
Kroger Gas Station	10230 Chestnut Plaza Drive	Fort Wayne	Indiana	46814
National Oil & Gas	3005 Hillegas Road	Fort Wayne	Indiana	46808
Bridgewater Gas Station	13935 Illinois Road	Fort Wayne	Indiana	46814
Phil's One Stop Copper Creek	1960 Copper Mine Passage	Fort Wayne	Indiana	46818

**17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C and then respond to the following:**

**Note: Items 17a and 17d will be combined and answered together in the section that follows.**

- a) **Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.**
  
- d) **Identify storm water BMPs installed or initiated for this MCM during this reporting period.**

BMPs identified in most recent revision of SWQMP Part C and responses on progress as follows:

**BMP 1 – Allen County Partnership for Water Quality** = maintain and improve upon the use of the Allen County Partnership for Water Quality to satisfy the requirements of Minimum Control Measures 1 and 2.

Progress -

In July 2002, Allen County MS4 municipal entities partnered to express their commitment to water resource education by creating the Allen County Partnership for Water Quality (ACPWQ). The activities of this Water Quality Partnership are utilized heavily to fulfill the Public Education and Public Involvement requirements for the NPDES Phase II requirements. As such, Allen County and the co-permits (Town of Leo-Cedarville and the Town of Huntertown) have developed a Memorandum of Agreement (MOA) with the ACPWQ for assistance with implementation of Rule 13 Minimum Control Measures 1 and 2.

The Allen County Partnership for Water Quality utilizes a part-time Water Resource Education Specialist to educate the public and media on water resource issues. The ACPWQ focuses its educational efforts on stormwater pollution, watershed issues, and improving stormwater quality. The Allen County Partnership for Water Quality staff and volunteers provide watershed, water quality, and pollution prevention education to adults and children by participating in many community events and providing presentations, workshops, and training sessions at various venues throughout the county (such as area schools, youth groups, civic groups, fairs and festivals, etc.). The Allen County Partnership for Water Quality part-time educator now resides in the Allen County Department of Environmental Management (ACDEM) to allow networking of resources with the ACDEM recycling/reuse/household hazardous waste Communications and Outreach Coordinator, who provides public education to county constituents.

Lastly, the Partnership for Water Quality purchased a table cover (with the Partnership name and logo) and new signage for the Partnership booths at community events during this reporting period to provide better visibility to event participants.

**BMP 2 – Allen County Partnership for Water Quality Board Meetings** = utilize Allen County Partnership for Water Quality Board Meetings to guide and ensure the effective development and implementation of educational and participation initiatives.

Progress -

The Allen County Partnership for Water Quality Advisory Committee meets quarterly to review the activities of the Partnership and to assess current and future goals to maintain an effective pollution prevention educational program and to increase public participation and involvement. During the meetings, networking opportunities are provided for the part-time educator as county-wide partners with environmental interests are able to provide information on area community events and activities that the educator could attend to further the educational goals of the Partnership. Partner and community requests for service are also evaluated to see if they meet the goals of the Partnership and are the best use of the Partnership resources. Attendees of each meeting are tracked with a sign-in sheet. Meetings are open to the public.

Additionally, during the reporting period, the Partnership Advisory Committee created a mission statement for the Partnership and this mission statement is now posted on the Partnership website at [www.acwater.org](http://www.acwater.org).

**BMP 3 – Printed Materials** = develop and publish at least one new brochure each year. Update existing brochures. Brochures will be disseminated via mass mailings within priority watersheds, at local places of business, at County offices, and at area events and festivals. Copies of the brochures along with the total number of brochures distributed will be documented.

Progress –

During the reporting period, the Partnership for Water Quality produced a new Regulated Drain brochure, a new activity book, and a new native plant handout. The new brochure was entitled “Owner’s Guide to Regulated Drains” and was produced with a joint effort between the Allen County Surveyor’s Office and the Partnership for Water Quality. This brochure provides information on what a regulated drain is, how regulated drains are assessed financially, provides information on the costs of maintenance and reconstruction, provides information on obtaining consent for permanent structures constructed within the regulated drain easement, and discusses why it’s important to keep trash, debris, pet waste, and harmful pollutants out of these waterways. This brochure will be disseminated to the public to provide information to residents who may seek information regarding regulated drains.

The ACPWQ created a new, updated 8-page Stormwater Activity Booklet to help teach local youth about local watersheds and water quality issues. This booklet can be downloaded from the Partnership website at [www.acwater.org](http://www.acwater.org) and at the Partnership booth at various festivals and events.

The Partnership for Water Quality also produced a new native plant handout. The handout contains both an information card and seed paper shaped in the form of a water droplet containing Black-eyed Susan seeds embedded within the paper. The seed paper contains the Partnership logo on it along with

planting instructions for this native plant. The information card promotes the use of native plants and the benefits they offer to cleanse stormwater.

Additionally, nine existing brochures were revised and re-printed to update information within the brochures and to update the listing of the partners participating within the Allen County Partnership for Water Quality, along with updating the educators new phone number.

The Allen County Partnership for Water Quality provides the public with brochures and booklets which explain many water resource issues. The Partnership distributed the following brochures:

“Stormwater Pollution”  
“Household Hazardous Waste”  
“Combined Sewer Overflow”  
“Drinking Water”  
“Green Landscaping”  
“Septic System Maintenance”  
“What is the ACPWQ”  
“Pet Waste”  
“Fertilizer and Algae”  
“Wetlands”  
“Don’t Feed the Storm Drain”  
“Urban Practices”  
“Owners Guide to Regulated Drains”

These brochures can be found and downloaded by the public within the Allen County Partnership for Water Quality website at [www.acwater.org](http://www.acwater.org).

The Partnership for Water Quality distributes brochures at area festivals and events and provides brochures to the Town Hall buildings for both Leo-Cedarville and Hometown. For 2019 the Partnership distributed 2346 brochures and for 2020 there were 1003 brochures distributed.

**BMP 4 – Educator Training** = develop and provide 1 event each year to train educators (traditional and non-traditional) regarding water quality. Topics may include Project WET, Hoosier Riverwatch, etc.

Progress –

The following workshops were provided to train educators regarding water quality:

*Hoosier Riverwatch/E. Coli Workshops/Project WET Trainings*

June 15, 2019 – a Hoosier Riverwatch Full-Day Basic Training workshop was provided at Metea County Park in Allen County and was taught by Allen County’s Active Instructor, Sharon Partridge.

June 13, 2020 – a Hoosier Riverwatch Full-Day Basic Training workshop was scheduled at Metea County Park in Allen County to be taught by Allen County’s Active Instructor, Sharon Partridge.

December 22, 2020 – an advanced half day E. Coli workshop sponsored through the Hoosier Riverwatch program was provided at the Environmental Resource Center at Purdue University, Fort Wayne. This workshop was provided by Allen County’s Active Instructor.

2019:

- February 25th: ACPWQ educator attended a Project WET Workshop
- ACPWQ used Project WET during the following programs (Educators were present at all programs):
  - April 13th: Girl Scout's Earth Day Event
  - May 23rd: Wayne High School Presentations
  - October 20th: Young Naturalist Program

2020:

- June 13th: ACPWQ educator attended Hoosier River Watch Training
- June 17th: Getting Little Feet Wet Project WET Training
- September 19th: Science Central's Teacher Expo- ACPWQ educator talked to teachers about resources that the Partnership could provide including Project WET and Hoosier River Watch
- ACPWQ used Project WET during the following programs (Educators were present):
  - February 12th: Y-Care After School Program
  - March 5th and 6th: Heritage Elementary School Class Presentations
  - March 11th: Y-Care After School Program
  - June 24th: Zoo Conservation Crew Program
  - July 8th: Zoo Conservation Crew Program
  - July 22nd: Zoo Conservation Crew Program
- Used Hoosier River Watch during the following programs (Educators were present)
  - June 16<sup>th</sup>: Zoo Presentation – Conservation Crew
  - June 30<sup>th</sup> : Zoo Presentation – Conservation Crew
  - July 14<sup>th</sup> : Zoo Presentation – Conservation Crew

The Project WET modules in the Partnership library have continued as an excellent resource for presentations. The integration of several Project WET activities into general presentations has helped improve the impact of storm water as a theme. Please see the attached spreadsheets of Partnership Activities for the different events and activities that the Partnership for Water Quality participated in or sponsored where a Project WET module was utilized during the presentations.

*Where My River Runs Watershed Curriculum* - In an attempt to reach decision making adults through their children, as well as to teach the next generation of consumers, the St. Joseph Watershed Initiative has created a five-day watershed curriculum for the mid-elementary school students. The curriculum explores the physical watershed of the St. Joseph River, where the water originates and where it flows. It includes lessons on water quality and how human activity affects that quality, as well as how the rivers and streams have impacted local history. It also includes an opportunity for students to assume the roles of various landowners and other stakeholders in determining how they will protect and improve their local water resources. This education module is being updated and will be distributed to teachers and educators at training events to incorporate the curriculum into their classrooms as part of the Lower St. Joseph River - Bear Creek Watershed activity requirements.

Project WET Summary:

Year 2019 – Total of number of times a Project WET module was utilized during a presentation = 10

Year 2020 – Total of number of times a Project WET module was utilized during a presentation = 21

**BMP 5- Water Quality PSA** = provide one public service announcement per year via an optimal outlet (radio, TV, billboard, etc.) as determined by the ACPWQ Advisory Committee regarding water quality and aligned with an annual “theme.”

Progress –

The Allen County Partnership for Water Quality contacted and utilized media outlets such as newspaper, facebook, websites, YouTube, television, periodicals, and radio to help educate the public on water quality issues. This report term, the ACPWQ’s annual theme and focus was on water infiltration practices (rain gardens, rain barrels, permeable pavement, etc.). Many of the Partnerships monthly tips, articles, and presentations focus on this target.

PSA/newspaper BMPs utilized over the reporting period are as follows:

PSA’s:

Years 2019-2020 – the Allen County Partnership for Water Quality performed various “Water Cooler” informational sessions on various water quality topics that were aired on public access WELT FM radio throughout the reporting period. For example, in October and November of 2020, a Keep the Storm Drains Leaf Free PSA ran about 100-200 times. For a listing of PSA’s provided by the ACPWQ, please see the documents attached entitled “Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet” for the years 2019 and 2020.

Newspaper Articles:

The Partnership uses newspaper announcements to advertise and promote upcoming events and to provide water quality education to the public. Many newspaper articles were provided by the ACPWQ regarding water quality education. For example, the *Waynedale News* published a “Keep Salt Light” article that was provided by the Partnership discussing the importance of applying deicers properly and reducing salt as an ice treatment.

For a listing of newspaper articles provided by the ACPWQ and published in local newspapers, please see the documents attached entitled “Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet” for the years 2019 and 2020.

*Press Releases:*

The ACPWQ and the partners of the ACPWQ have issued media press releases announcing such items as the Farm Show, Tri-State Expo, Project WET workshops, the SWCD Annual Meeting, the Allen County Department of Environmental Management events, the Rain Barrel Program, and certain upcoming water quality presentations. For example, two press alerts were released to the newspapers in February of 2020 to advertise the Protecting & Maintaining Post Construction Best Management Practices Workshop that occurred on February 25<sup>th</sup>, 2020. Additionally, all local Hoosier Riverwatch workshops are announced through press releases to various media groups.

Lastly, there are other county agencies and local groups with water quality related information in local newspapers:

Examples of Allen County Department of Environmental Management Articles -

**The Journal Gazette – Single-Use Utensils County’s New Target – January 3, 2019**

This newspaper article discussed the Allen County Department of Environmental Management's newest campaign for 2019. The campaign against single-use plastic such as straws will continue, but this time it will focus on plastic utensils. The goal will be to reduce the amount of plastics that easily become litter and promote the fact that we have very valuable habitats here in our area that need to be protected.

#### **The Journal Gazette – Tox-Away Program May Expand – February 21, 2019**

This newspaper article discussed the Allen County Department of Environmental Management's potential expansion of their Tox-Away Tuesday program to include six Saturday's during the year in addition to the weekly Tuesday hours if approved by the county commissioners.

#### Save Maumee Articles:

#### **2019 & 2020 Riparian Buffer Tree Plantings**

The Save Maumee non-for-profit organization published various newspaper articles throughout the reporting period announcing the implementation of riparian buffers and tree plantings in project areas within the Upper Maumee River watershed. These riparian buffers were to be implemented with the help of volunteers with the aid of grant money.

#### **Summary:**

The county through the Partnership for Water Quality completed its PSA/newspaper article goals for Public Education for this reporting period. For further information, please see the documents attached entitled "Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet" for the years 2019 and 2020.

#### **Future PSA and Media Goals:**

Future PSA and Media goals of the Partnership for Water Quality include

- Creating 2 Radio/Podcast segments and 2 radio PSAs
- Create 4 Water Cooler episodes on public access WELT FM radio - 1 per quarter/season
- Additionally, the Partnership will look to work more closely with the Allen County SWCD to help target rural areas of the county on agricultural/rural best management practices to help with the Western Lake Erie Basin initiative of reducing phosphorus and resulting algae blooms in Lake Erie. The Partnership believes that media uses are an integral part of providing education to large numbers of people and henceforth will continue to play a large part in our goals for the future

#### **BMP 6 – Website/Social Media Use =**

- Maintain and update the ACPWQ website with new detailed stormwater information continually.
- Allow questions to be submitted via the website.
- Provide announcements on social media sites and update the ACPWQ website events calendar on an on-going basis.
- Respond to public questions (phone and email questions) on a routine basis and track the number of hits to the site.

Progress –

The Allen County Partnership for Water Quality created a website that went on-line in 2005 containing water quality information in order to promote better public awareness. The website can be found at [www.acwater.org](http://www.acwater.org). The website features information about the Partnership itself but is also a source for information about water resources in general. Teachers, students, neighborhood associations, realtors, and others can find information on the website tailored to meet their needs. The website also features the Partnership's series of brochures and newsletter articles. The website has an email function by which an individual could ask a question regarding the County's Stormwater Program or stormwater in general. The website also provides addresses and phone numbers to enable the individual to contact the Partnership with further questions. The website includes a calendar of events that lists dates, times, and sponsors of stormwater related events such as workshops and clean-up events and also includes volunteer opportunities related to stormwater along with a list of ways residents can get involved in improving water quality. The calendar of events on the ACPWQ website is updated weekly.

The information within the website was updated in 2019 with updated educational information and contact information. The main ribbon of the website is updated with a monthly water quality tip. This program entails a targeted monthly message and provides different seasonal articles on what homeowners can do to help improve water quality. Distribution of the monthly tip articles has been primarily through the ACPWQ Facebook Page, the website, through several Homeowner's Association Newsletters, and for distribution to our co-permits to input into their website and newspaper/newsletters. Additionally, in 2020, the Partnership has started the process of creating a new Annual Report that lists the activities and accomplishments of the Partnership. This report is now available on the website for the report year of 2020 along with the latest Water Spout newsletters that are geared to provide updates twice a year to the county elected officials on what the Partnership is doing.

The Allen County Partnership for Water Quality website can track the number of visits by residents to the website per month or on a daily basis and the average stay of each person on the website (in number of minutes). It also tracks the number of different pages within the website that are viewed by each visitor and the percent of visits that were unique. For the statistics of the Partnership website usage during this reporting period, please see the documents attached entitled "Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet" for the years 2019 and 2020.

The ACPWQ website also provides links to partner websites and to websites of other organizations that provide information about water resources and water quality improvement. Information about the watersheds and the watershed concerns within Allen County can also be found within the website, along with information on organizations within the area that focus on water quality improvements for specific watersheds such as the St. Joseph River Watershed Initiative and the Maumee River Basin Commission.

With regard to the Allen County website ([www.co.allen.in.us](http://www.co.allen.in.us)), the Surveyor's Office has placed information within the Surveyor's Office link of the county website that includes the Stormwater Management Ordinance, the Stormwater Fee Ordinance, past IDEM Water Quality Annual Reports submitted, the county Stormwater Management Plan Review and Application Forms and guidance documents, the county's Part C Stormwater Quality Management Plan and SWQMP Part B Baseline Characterization Report, and the Technical Standards Specifications document along with the minutes of past Drainage Board meetings for the public's use. Additionally, within the Surveyor's Office link, there is educational information on water quality and links to further educational material, Report-A-Polluter information and form, IDEM and NPDES permit forms and approvals, the background information on the

NPDES program, and listings for volunteer opportunities. Contact information is also available on the website for anyone with further questions.

Questions from the public submitted through the Partnership website via email or phone are addressed by the Allen County Partnership for Water Quality Water Resources Education Specialist, if the question concerns general water quality information. More specific questions or questions that can be better handled by one of the partners are forwarded to that specific partner to address. The number of public questions and concerns are tracked within the activity tracking sheets each year.

### **Social Media Use:**

#### *ACPWQ Blog:*

The Partnership for Water Quality blog is a new biweekly program that began on October 23, 2020. The Partnership has promoted the blog through the Partnership's Facebook page and website. In October, with one post, the blog received 19 views. In December, that number has grown to 30 with four subscribers. These blog posts help provide inspirational messages to the public on protecting water quality. The blog posts can be found at <https://acwaterblog.org/>.

#### *Facebook:*

The Allen County Partnership for Water Quality is currently on Facebook. This provides an opportunity for the public to follow the activities, events, and water quality information available through the Partnership for Water Quality. Monthly water quality tips are posted along with weekly informational posts. Distribution of the monthly tip articles has been primarily through the ACPWQ Facebook Page, the website, through several Homeowner's Association Newsletters, and for distribution to our co-permits to input into their website and newspaper/newsletters. Total reach for the monthly water quality tip program was about 7204 for the year 2020.

@ACPWQ Facebook page is organically grown as the Partnership has not been able to pay to reach more viewers. All the Partnerships reach, or views, is a direct result of the Partnerships followers sharing the information. On January 1<sup>st</sup>, 2020, our page had 248 followers but has grown to finish the year with 290. Each year the number of people visiting and utilizing the information posted on Facebook increases. The Partnership Facebook page has the ability to keep track of gender, age, and location of those people that "Like" the page.

#### *YouTube Video:*

There is a YouTube video created by the Partnership for Water Quality that explains the importance of our rivers as a resource and explains what the Allen County Partnership for Water Quality does and how it is available as a resource to the citizens of Allen County.

#### *Videos:*

The Partnership for Water Quality continues to distribute copies of the two videos that were produced ("A Watershed Mentality" documentary & "Green Sells" construction BMP video to address erosion and sediment control).

**BMP 7 - Municipal Employee Training** = develop and conduct 1 training related to stormwater issues, pollutants, programming, etc. for municipal employees.

Progress -



The training opportunities that were provided to municipal employees for the reporting period can be found in sections 19a (BMP 4), 20e, and 22d below.

**BMP 8 – Newsletter Articles =**

- Provide a new newsletter article each year that can be utilized by anyone requesting them, such as neighborhood associations. These articles will contain information related to water quality impacts from stormwater. Document the total number of articles published, the topics of each article, and the total number of groups receiving the articles.
- Provide newsletter articles that are emailed and distributed to 1.) the elected officials and 2.) to interested citizens and interest groups within the public.

Progress –

The Allen County Partnership for Water Quality (ACPWQ) has available a series of newsletter articles entitled *Water Matters*. Each of the *Water Matters* articles addresses a different water related topic. Every month, the Partnership has a new focus for Allen County residents to help promote water quality in our area and downstream. These monthly tip articles provide residences with one task each month to focus on to help them fight stormwater pollution and improve the health of our waterways. This monthly program started in March 2019.

The *Water Matters* articles/monthly tips are supplied to neighborhood associations or other civic groups that would like to include them in their newsletters and are also available for download on the Partnership’s website ([www.acwater.org](http://www.acwater.org)). These articles are also posted on Facebook and are distributed to our co-permits for their use in local media outlets.

For the reporting period, there were 12 new *Water Matters*/monthly tips newsletter articles published on the website (one per month). *Water Matters* articles were distributed to three Homeowners Associations for their use during the reporting period. The list of *Water Matters* articles available to the public can be found on the ACPWQ website: [www.acwater.org](http://www.acwater.org).

**Employee Newsletter** – the county produces an employee newsletter every two months. The following water quality related articles were provided within the newsletter during this permit term:

**Allen County Employee Newsletter – ACDEM Launches New Campaign to Reduce Plastics & April Showers Bring May Flowers: Reduce Stormwater Runoff - April 2019 Issue**

The Allen County Employee Newsletter had two educational articles for Allen County employees that were input by the Allen County Partnership for Water Quality and the Allen County Department of Environmental Management. The first article on the Allen County Department of Environmental Management launching a new campaign to reduce plastics provided a discussion on why residents should cut back on their use of single-use plastics and try and find a reusable alternative. The second article discussed the benefits of installing rain gardens to reduce stormwater runoff.

**Allen County Employee Newsletter – Grasscycling: Not Another Dad Joke & Environmentally Friendly Ways to Maintain Your Lawn - June 2019 Issue**

The Allen County Employee Newsletter had two educational articles for Allen County employees that were input by the Allen County Partnership for Water Quality and the Allen County Department of Environmental Management. The first one on Grasscycling discussed the simple practice of leaving grass clippings on the lawn after one is done mowing instead of raking and bagging the clippings. The second

article discussed using organic fertilizers for lawns such as compost and doing less with your lawn by using native plants and reducing the size of the lawn.

**Internal Newsletter** - The Allen County Partnership for Water Quality continues to produce an Inter-Agency Newsletter entitled “Water Spout.” The intent of this newsletter is to provide updates and information to key co-workers and elected officials of the activities of the Partnership for Water Quality and to act as an inter-departmental communication to promote and educate agencies, departments, and elected officials of new research and interesting news and information pertaining to water quality. This newsletter is produced twice a year. The Allen County Commissioners and County Council are on the mailing list for this newsletter, along with the County Auditor, the Allen County Surveyor, the Director of the Allen County Parks Department, the Allen County Department of Environmental Management Supervisor, the County Extension Director, and the Leo-Cedarville and Hometown co-permittee elected officials.

*Soil & Water Conservation Newsletter:*

The Allen County Soil and Water Conservation District sends quarterly newsletters to county residents that advertise various water quality events and activities and provide valuable information on various soil and water conservation topics.

Additionally, the St. Joseph River Watershed Initiative and Upper Maumee River Watershed Groups also provide quarterly newsletters to the watershed stakeholders on events and information pertaining to the watershed and on water quality issues.

This fulfilled our measurable goal of developing and disseminating newsletter articles for public education purposes.

**BMP 9 – Public Meetings** =

- Conduct public meetings or activities where stormwater information and issues are discussed.
- Provide the attendees the opportunity to verbally comment for the record.

*Progress –*

The following opportunities were provided to Allen County constituents to participate in and comment on water quality related goals and activities:

*Drainage Board* - Allen County conducts Drainage Board meetings that are held on the second and fourth Thursday of every month to discuss drainage related issues and approvals. These Drainage Board meetings are now recorded and shown on public access television for the public to view and can be found live or taped on Facebook and the county website. Allen County accepts public input from constituents at these meetings and issues such as drainage problems, erosion and sediment control requirements, and post construction practices are discussed. The up-coming schedule for all drainage board meetings is posted on the Allen County website within the Surveyor’s Office link. Public Notices of the meetings are also sent out to people in the watershed where a project or a petition will be brought forth that affects property owners within that watershed. About 10-15 people on average attend the drainage board meetings. Additionally, Allen County accepts input and discussion on the Technical Standards and Ordinances from developers, contractors, and engineers when updating or revising the Ordinance and Technical Standards Manual.

Purdue Cooperative County Extension - the Purdue Cooperative Extension Service conducts quarterly meetings that are open to the public. Additionally, the Purdue Extension offers various educational activities, programs, and presentations that are open to the public.

The Saint Joseph River Watershed Initiative (SJRWI) holds regular meetings of the watershed Board of Directors for citizens within the St. Joseph River Watershed. The Initiative's Annual Meeting is regularly held in December and brings together board members, employees, stakeholders and public officials to celebrate the accomplishments of the year. The public is welcome to attend any of these meetings. These meetings will continue to be announced on the SJRWI website, in local news outlets, and by email. The northern portion of Allen County falls within this watershed. About 10-15 people attend these meetings. The SJRWI also provides presentations that are made to the public upon request. This outreach to the community enables everyone to become more aware of what they can do to improve the water quality of the river and how the St. Joseph River Watershed Initiative can help them achieve their goals.

Lower St. Joseph River – Bear Creek Water Quality Improvement Program

The St. Joseph River Watershed Initiative is implementing grant-funded water quality improvements in portions of central and northern Fort Wayne, Leo-Cedarville and Grabill. As part of a \$274,000 grant received from the Indiana Department of Environmental Management, the St. Joe Initiative is offering to share the cost of backyard conservation practices in several critical areas. The project is aimed at protecting water quality in the St. Joseph River -- the source of drinking water for more than 300,000 people in the Fort Wayne area and a vital economic and recreational asset. The water quality improvement is being guided by a steering committee of residents. The Allen County MS4 Coordinator is a part of this steering committee. Cost share funds are available to assist property owners in critical areas who would like to install backyard conservation measures including rain barrels and rain gardens. Funding is also available to assist neighborhood associations with projects to deter nuisance geese, since geese are a major source of bacterial pollution in Indiana's ponds, lakes, streams and rivers.

Flatrock Creek/Au Glaize River Watershed Management Plan Project

The Allen County MS4 Coordinator and an Allen County Drainage Project Manager volunteered to be on the Project Steering Committee for the creation of a Watershed Management Plan for the Flatrock Creek watershed in southeastern Allen County. This is funded through an IDEM 319 grant. The Allen County Surveyor's Office has also committed to helping promote and assist with the educational efforts of this watershed group. The committee meets quarterly at a site within the watershed. There are about 10-15 people from the general public who live within the watershed who participate in the steering committee meetings, providing public involvement and participation for the construction of the plan.

Upper Maumee River Partnership Group - The Upper Maumee River Watershed Partnership is a locally-led group of concerned citizens and organizations whose primary goal is the improvement of water quality throughout the Upper Maumee River Watershed (covers a portion of Allen County) and ultimately throughout the Western Lake Erie Basin. The group encourages public input/participation at all general steering committee meetings. Stakeholders who regularly attend the meetings represent agriculture, business, construction, conservation, government, education, and residents. The group meets on the 2<sup>nd</sup> Wednesday of odd months with about 10-15 people attending the meetings.

Western Lake Erie Basin DAP Meetings – an advisory committee was created to establish Indiana's Great Lakes Water Quality Agreement (GLWQA) Domestic Action Plan (DAP) for the Western Lake Erie Basin (WLEB) to reduce phosphorus to Lake Erie. Regular meetings continue to be held to document progress

made in implementing programs, projects, outreach, and management practices that will advance the phosphorus reduction goals.

*Save Maumee Grassroots Organization* - this organization focuses on trying to improve the water quality of the Maumee River. Save Maumee holds various events for anyone interested in improving the water quality of our area rivers. The group meets on the first Monday of each month and the meetings are open to the public. Save Maumee holds annual river clean-up events in which volunteers pick up many different types of trash and debris from the river. Meth lab materials that are found are reported to local police. The group also holds periodic fund-raisers featuring food, music, and door prizes that raise money for riverbank restoration materials.

The Save Maumee non-for-profit organization worked with the Allen County Surveyor's Office to implement riparian buffers in three project areas within the Upper Maumee River watershed. The Bullerman Ditch, Six-Mile Creek, and Trier Ditch remain on the federal 303 (d) list of impaired waterways as reported by IDEM and the Upper Maumee Watershed Management Plan. The riparian reforestation efforts of these projects enabled the public to help plant and protect native species of trees and plants that lie next to these perennial streams and remove invasive species. In 2019 the organization completed planting of 2,936 trees along 1.5 miles of streambank with the help of many volunteers. The following are additional activities of this organization that helped Allen County with their water quality improvement efforts:

October 25-26, 2019 – the public was invited to Save Maumee's tree planting event to plant 480 trees along the Upper Trier Ditch in Allen County that drains into the Maumee River. Prior to this event, volunteers spent weeks removing invasive species to make way for the new trees being planted.

April 2020 – Save Maumee volunteers picked up about 1500 pounds of trash along the river.

October 16-18, 2020 – Save Maumee volunteers planted 550 trees in a lowland forest area near the Maumee River with the hope of improving habitat and tree diversity in this area. Prior to the tree planting event, the group removed trash, downed-wood, and invasive species from the tree planting area. The project was funded through a GLRI grant through USDA Forest Service and a local fundraiser.

#### *Maumee Watershed Alliance*

The mission of the Maumee Watershed Alliance is to sustain healthy watersheds that support thriving communities and strong economies evidenced by improved water quality with increased recreational and business opportunities. The Maumee Watershed Alliance continues to forge partnerships in the interest of sustaining healthy watersheds. The Alliance has done educational presentations to students and other interested groups throughout the year.

In 2020, the Maumee Watershed Alliance conducted 10 different public ecology tours of the St. Joseph River in Fort Wayne via a pontoon going up and down the river. During the tour, the organizer offered educational information to the participants regarding the ecology and water quality along the river. There was a total of 105 people that took part in these ecology tours.

#### *Rain Barrel Program*

In 2020, the Maumee Watershed Alliance offered 8 rain barrel workshops to the public that provided information on the benefits of the usage of rain barrels and how to construct and assemble a rain barrel. There were 135 people in attendance for these 8 rain barrel workshops. During the workshops the

opportunity was available for the public to purchase one of the rain barrels that was constructed during the workshop.

The Allen County SWCD sponsors public meetings that address land use conservation and water quality improvement topics.

Each of the watershed groups listed above have their own website with detailed information about the watershed and educational information, along with information on times and locations of upcoming meetings.

#### Additional Opportunities Public Meetings and Public Participation -

##### **Allen County Partnership for Water Quality Public Meetings**

The Allen County Partnership for Water Quality Advisory Committee holds quarterly meetings that are open to the public to discuss the future educational goals and activities of the Partnership to enable the county MS4 co-permit to continue to satisfy the federal, state, and local water quality public education and outreach/public participation and involvement regulatory requirements. The Partnership meetings usually average about 10-12 people in attendance and meeting sign-in sheets are utilized.

##### **Allen County SWCD Coffee and..... Series**

Allen County SWCD offers early morning educational meetings every 3<sup>rd</sup> Tuesday of the month to discuss relevant topics related to agriculture and invites professionals in the field to share their knowledge and expertise with the public.

##### **March 2019 – Soil and Water Conservation District Annual Meeting**

This annual public meeting typically has speakers present to discuss various agricultural and water quality related topics. There are typically over 100 people in attendance.

##### **January 31, 2019 – St. Marys River Stream Assessment Study Results Presentation (Training for MCMs 1-6)**

A presentation was provided to the public on the results of the St. Marys River Stream Assessment Study that was completed by Siavash Beik of Burke Engineering and Robert Barr of IUPUI. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality. There were about 25 people in attendance.

##### **February 2, 2019 – World Wetlands Day**

This daylong event was dedicated to educating the public on the importance of keeping our waterways clean and to teach the importance of urban wetlands such as the Deetz Nature Preserve, where walking trail tours within this Preserve were also provided as part of this event. The ACPWQ was asked to help educate youth about the importance of water quality and conservation at this event.

##### **August 6, 2019 – Day at the Lake**

This was a field trip open to the public where residents could take a bus trip to Lake Erie and take a tour of an open lab on the lake to see demonstrations of water quality tests performed by Ohio State University faculty on the lake waters. Presentations on water quality topics were also provided by Ohio State faculty. There were 4 people from the Allen County Surveyor's Office that went on this trip and there were about 50 residents that went on this day long bus trip.

### **September 27, 2020 – World Rivers Day Ecology Tour**

Two ecology tours of the St. Joseph River in Fort Wayne were offered on a pontoon going up and down the river. During the tour, the organizer offered educational information to the participants regarding the ecology and water quality along the river. There were 10 people from the public that participated in the first tour and 7 that participated on the second tour.

**BMP 10 – Stormwater Assessment** = develop targeted on-going assessments throughout permit term to better target stormwater education and outreach involvement activities. These assessments may be conducted prior to and following an event to gauge the knowledge of the participants and the effectiveness of the event.

Progress –

At the beginning of every presentation with kids (and to some extent adults), the Partnership for Water Quality educator always asks questions relevant to the presentation to see what the kids know so that she can build the presentation from that knowledge base. At the end of each presentation, the educator always does an informal question and answer session to see if their knowledge has expanded.

The following is a list of events where the Partnership for Water Quality educator did a verbal pre/post assessment:

2019:

- Feb 2: New Haven World Wetland Day
- April 13: Girl Scouts Earth Day Extravaganza
- Oct 19: Girl Scouts STEM Event

2020:

- Jan 4: It's Your Planet-Love it! Girl Scout Event
- Feb 12: Leo-Cedarville Y After Care Kids Presentations (note a pre-test was done at the start of the program presentations, but due to the program abruptly ending due to COVID in late March, a post test at the end of the program was not accomplished)
- March 5/6: Heritage Elementary School Presentations
- March 13: Leo-Cedarville Y After Care Kids Presentations
- June 16/24/30: Zoo Conservation Crew Outreaches
- July 8/14/22: Zoo Conservation Crew Outreaches

The Allen County Partnership for Water Quality continues to look for ways to better assess our educational efforts. The Partnership will continue to investigate strategies for this in the next permit term.

### **BMP 11 – Allen County Department of Environmental Management Activities (formerly Allen County Solid Waste Management District)** =

- Promote the activities of the Allen County Department of Environmental Management.
- Encourage residents and staff to use existing Household Hazardous Waste drop-off locations for proper disposal and encourage participation in curbside recycling programs.
- Educate the community on the importance of pollution prevention and recycling programs.
- Track the amount of material collected at HHW facilities and track the number of stormwater brochures distributed on an annual basis.

#### Progress -

The Partnership for Water Quality promotes the activities of the Allen County Department of Environmental Management (formerly Allen County Solid Waste Management District) by listing upcoming events on the events calendar and by distributing brochures on Household Hazardous Waste disposal. The number of brochures distributed is tracked annually. The Allen County Surveyor's Office website has a link to the Department of Environmental Management website.

The Allen County Department of Environmental Management (ACDEM) promotes their events through media outlets such as radio and television and through the local newspapers. Weekly Tox-Away Tuesdays held at the ACDEM Household Hazardous Waste Facility at 2260 Carroll Road, Fort Wayne are promoted heavily via radio and television to encourage residents to utilize these events for proper disposal. ACDEM has a Community Education Coordinator who provides education to the public about the importance of proper HHW disposal and recycling programs.

ACDEM keeps track of the amount of waste collected and publishes this information in an annual report booklet that is available to the public for view and download. ACDEM collected the following material amounts in 2019 and 2020:

#### **Amount of material collected from Household Hazardous Waste Collections & Constituent Participation –**

Batteries Collected (tons) = 10.72 (2019); 15.53 (2020)

Electronics (tons) = 250 (2019); 266 (2020)

Fluorescent Bulbs Collected (ft.) = 149,118 (2019); 99,688 (2020)

HHW Material Collected (tons) = 177 (2019); 151.37 (2020)

Tires Collected = 4567 tires (2019); 4471 tires (2020)

Organic Waste Material Received (tons) = 9,502 (2019); 11,309.88 (2020)

Community Drop-off Trailer Materials Received (tons) = 516 (2019); 696.16 (2020)

Weekly Tox-Away Tuesday Participation = 2478 cars dropped off material at ACDEM's HHW Facility (2019); 3125 cars (2020)

Number of residents reached in environmental education programs = see attached 2019-2020 ACDEM Annual Reports for details on education and outreach

#### **Program Highlights/Further Information:**

- Engaged over 1,800 Allen County residents through environmental education programs and events in the community.
- In 2019, ACDEM collaborated with 32 community organizations to raise awareness of waste and plastic pollution issues and reduce Allen County's environmental footprint.
- Collaborated with six schools in Allen County on environmental education programs.
- Hosted three "Learn to Compost" seminars and workshops in Allen County.
- 100% of ACDEM's educational programs were offered free of charge.
- Wrote monthly "Ask an Environmentalist" columns for Input Fort Wayne, responding to residents' questions and concerns about local waste issues.
- Presented at the Association of Indiana Solid Waste Management Districts' Annual Business Meeting about best practices for engaging residents on social media.
- ACDEM provided 6 live Christmas tree recycling locations throughout

the county - another effort to divert organic material from the landfill in 2020.

- ACDEM provides the City of Fort Wayne and the Allen County Highway Department with tire trailers to assist with illegal tire dumping and tires found along roads in Allen County.
- ACDEM has retired the annual Tire Amnesty Day event due to decreased demand for collection in the past years. Many auto service businesses in Allen County now accept used and worn tires, offering more opportunities for residents to dispose of their tires properly. ACDEM connects residents looking to dispose of tires to local businesses who offer tire recycling year-round.
- ACDEM can be found on Facebook and Twitter. ACDEM uses these social media sites for residents to keep up on their events.
- Wal-Greens Pharmacy in New Haven and Fort Wayne has specific days advertised where they will accept unwanted medications as a means of disposal.
- There are four year-round disposal sites in Allen County for residents to dispose of unwanted medications. The drop boxes are part of an effort to keep drugs out of the hands of children and prevent water pollution caused by flushing medications down drains or tossing them in the trash. Allen County TRIAD is a partnership of law enforcement, senior citizens and community groups that sponsor the drop boxes. A medication drop box is in the Rousseau Centre (formerly the City-County Building), another box is located in the Hometown Town Hall, one is located at the New Haven Police Station, and the other at the Indiana State Police Post on Ellison Road.
- In addition to weekly Tox-Away Tuesday events, ACDEM partnered with the City of Fort Wayne to host 6 Tox-Away Saturday events in 2020. The results of these events are as follows:

<u>DATE</u>	<u># of Cars</u>	<u>HHW Weight in lbs.</u>	<u># Fluor. Bulbs</u>	<u>Universal (lbs. Batteries)</u>	<u>Gallons of Latex</u>
4/6/2019	115	8,767	1	431	452
5/4/2019	140	5,774	122	112	640
6/1/2019	55	2,500	83		326
8/3/2019	168	8,787	72	93	1,152
9/7/2019	151	8,857	269	157	630
10/12/2019	226	13,551	185	141	1,045
<b>Total</b>	<b>855</b>	<b>48,236</b>	<b>732</b>	<b>934</b>	<b>4,245</b>

The City of Fort Wayne collected the following tons of recycling materials for each year listed:

2018 – 12,552 tons

2019 – 11,563 tons

2020 – 12,278 tons

**Number of constituent drop-off centers –**

The following area locations, in accordance with ACDEM, provide drop-off centers for automotive fluid recycling:

**Hires Auto Parts**

7111 South Anthony Boulevard, Fort Wayne, IN 46803

Phone: 447-2586



1620 Northland Blvd, Fort Wayne, IN 46825  
Phone: 489-5734

5809 Illinois Rd., Fort Wayne, IN 46804  
Phone: 432-5111

5733 State Road 930 East, New Haven, IN 46774  
Phone: 749-8719

**\*\*All Hires locations also accept antifreeze, transmission & power steering fluids & motor oil.\*\***

**Doehрман Repair Service Inc.**

22319 Hickory Street, Woodburn, IN 46797  
Phone: 632-5330

**J&S Liquid Waste Service, Inc.**

4030 Option Pass, Fort Wayne, IN 46818  
Phone: 489-6021

**Safety Kleen Systems, Inc.**

2112 Production Road, Fort Wayne, IN 46805  
Phone: 484-8034

\*Business Collections Only\*

**Goodyear Auto Service**

4512 Maplecrest Road, Fort Wayne, IN 46835  
486-4075

For further information, please see the ACDEM website: <http://www.acwastewatcher.org/>

**BMP 12 – Allen County Soil & Water Conservation District Activities =**

- The Allen County SWCD will educate and encourage agricultural producers to use BMPs.
- Publish stormwater articles in quarterly newsletters.
- Track the number of stormwater related articles published.
- Track the number and type of educational programs and activities conducted targeting the agricultural community.
- Document dates, times, and attendance at all workshops and trainings focused on stormwater quality related issues.

Progress –

The Soil and Water Conservation District provides a Water Resources Booth to help provide water quality education during the annual Fort Wayne Farm Show. The SWCD holds various seminars on conservation BMPs at the Annual Tri-State Conservation Tillage Expo. The SWCD held several tours and field days at area farms to educate farmers on various aspects of conservation BMPs such as cover crops, two-stage ditches, Auto-steer systems, new equipment, nutrient management, and plant and soil health. The Allen County Soil & Water Conservation District helps support and administers area

watershed groups such as the Flatrock Creek/Auglaize River Watershed Group, St. Joseph River Watershed Group, Upper Maumee River Watershed Group, and the Maumee Watershed Alliance.

Water Sampling:

The Allen County SWCD provides long-term water quality sampling and testing in various watersheds around Allen County. Twenty-eight streams are monitored weekly during the growing season (April through October). Streams and collection points were selected based on where staff expected problems. Sampling started in the St. Joseph River watershed in 1995. Fort Wayne’s drinking water comes from the St. Joseph River and is processed through the Fort Wayne Water Filtration Plant. The program expanded monitoring to the St. Marys River and upper Maumee River watersheds, and later to the Auglaize watershed in recent years. It is estimated that over \$100,000 in staff time and materials among cooperating groups is devoted to this water-monitoring project annually. Funding comes from various sources, including the Allen County SWCD, the Natural Resources Conservation Service through various grants, Fort Wayne City Utilities and Purdue University Fort Wayne. Three Allen County SWCD employees are responsible for actual sample collections each week. USDA’s Agricultural Research Service and the U.S. Geological Survey are also key partners with the Allen County SWCD in this project.

*Soil & Water Conservation Newsletter:*

The Allen County Soil and Water Conservation District sends quarterly newsletters to county residents that advertise various water quality events and activities and provide valuable information on various soil and water conservation topics. The SWCD also produces an Annual Report for the public describing their activities for the year.

**The following are activities pertaining to stormwater quality that the Allen County Soil and Water Conservation District sponsored or participated in for the current reporting period.**

2019	Activities Topic	Number
1-15,16, 17	Fort Wayne Farm Show, Conservation w/SK worm	33,000
2-4	Urban Ag Class w/ James Wolfe	9
2-14	Infield Advantage Meet	24
2-14	Interseeding Meeting	17
3-11	Jill Clapperton Presentation Soil Health	150
3-14	Purdue – St Marys Outreach / Ed Comm	15
3-23	Planter clinic W/ Amish	14
4-6	Conservation Conversation IPFW speaking	100
6-3	Dealing with Wet Soils Meeting, Alfalfa & Forage	35
6-4	Dealing with Wet Soils Meeting, Corn and Soybeans	38
7-25	Indiana Dept of Ag Tour presentation on 2 stage ditch	25
7-15	Water Summit in Indy. Speak on cons. farming	130
8-6	Day at the Lake – Lake Erie Water Quality Educ. Tour	50
8-19	Farmers on the River Tour for Agrigold Seeds-Wyss Farms	28
8-21	Farmers on the River Tour for Ag Plus, Inc.	24
9-3	Farmers on the River Tour for WLEB Partners	22
9-4	Annual Soil Health Field Day	150
9-4	Amish Field Day, Soil health	53
9-5	Farmers on the River Tour for Allen Co. Farm Bureau	32
9-24	Farmers on the River Tour Fort Wayne for G & K Concepts	33
10-7	Farmers on the River Tour Fort Wayne for Adams SWCD	28

2020	Activities Topic	Number
2-14,15,16	Fort Wayne Farm Show, Conservation	33,000
8-10	IN Prairie Farmer articles on various Conservation Efforts	6
12-15	Cover Crop Inter-seeding Meeting	17

Additional information pertaining to above listed activities:

**January 15-17, 2019 – Fort Wayne Farm Show**

Various presentations were provided courtesy of the Soil & Water Conservation District that involved watershed displays and information on cover crops, water quality, and agricultural best management practices. The ACPWQ assisted with education for this annual event by sharing a booth with SWCD. Various brochures were handed out at this event. The Soil and Water Conservation District and ACPWQ had around 3,000 people pass by the booth. Attendance for the entire event was estimated at around 33,000 people.

**March 11, 2019 – International Soil Health Specialist Jill Clapperton Presentation**

Jill Clapperton spoke on topics related to creating and managing healthy productive soils, crop rotation, and cover crops. She is currently working to develop and adapt technologies for improved on farm decision-making based on science.

**March 30, 2019 – Soil and Water Conservation District Annual Meeting**

This annual public meeting typically has speakers present to discuss various agricultural and water quality related topics. This meeting provided a presentation on what the water quality monitoring data is telling everyone for the Indiana portion of the Western Lake Erie Basin. There are typically over 100 people in attendance.

**August 6, 2019 – Day at the Lake**

This was a field trip open to the public where residents could take a bus trip to Lake Erie and take a tour of an open lab on the lake to see demonstrations of water quality tests performed by Ohio State University faculty on the lake waters. Presentations on water quality topics were also provided by Ohio State faculty. There were 4 people from the Allen County Surveyor’s Office that went on this trip and there were about 50 residents that went on this day long bus trip.

**February 14-16, 2020 - Fort Wayne Farm Show**

Various presentations were provided courtesy of the Soil & Water Conservation District that involved watershed displays and information on cover crops, water quality, and agricultural best management practices. The Allen County Partnership for Water Quality had an open booth where materials were placed out for people to take as they pleased. Attendance for the event was estimated at around 33,000 people.

**Fall 2020 – River Tours**

The Allen County SWCD and the Maumee Watershed Alliance had numerous opportunities to give tours of Fort Wayne’s three rivers – the St. Marys, the St. Joseph, and the Maumee. These tours were designed to educate both farmers and urbanites on the importance of water quality and the part everyone plays in maintaining and improving the water quality around Allen County.

**Late 2020 – 2021: Allen County SWCD Coffee and..... Series**

Allen County SWCD offers early morning educational meetings every 3<sup>rd</sup> Tuesday of the month to discuss relevant topics related to agriculture and invites professionals in the field to share their knowledge and expertise with the public.

### **Booklet and Pamphlet Display**

Since 2010 the district has had available a display that holds 24 pamphlet size and 12 booklet size flyers to help inform the public as they enter the districts' building.

**The Allen County Soil & Water Conservation District also participates in and sponsors many activities and events associated with the Allen County Partnership for Water Quality and serves on the Partnership Advisory Committee. A description of these activities and the public participation involved in these activities can be seen in the documents attached entitled "Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet" for the years 2019 and 2020.**

### **BMP 13 – Rule 13 Public Participation List =**

- Develop a list of volunteer activities such as water quality monitoring, storm drain marking, and community clean-up events to provide opportunities for constituents and volunteers to participate in the water quality program.
- Identify groups and individuals likely to have an interest in participating in stormwater quality programs.

### **Progress –**

Allen County has completed a list of individuals and groups likely to participate in Stormwater Programs and updates this list annually as additional groups come forward. The Allen County Partnership for Water Quality keeps a list of upcoming volunteer opportunities that are currently available to the public. The Partnership has an event calendar on the Partnership website where volunteer opportunities related to stormwater are posted. Volunteer opportunities are also posted on the Partnership for Water Quality facebook page. Emails are also sent to potential volunteers to help staff water quality booths when needed.

During the reporting period 2019-2020 the Partnership provided volunteer opportunities at various festivals and events such as the Leo-Cedarville BloomFest, Hoosier Riverwatch Training, EcoFest, Girl Scout STEM Event, the Post Construction Best Management Practices Workshop, the Farm Show, Save Maumee Earth Day, World River Day Event, volunteer opportunities with the county Storm Drain Marking Program, and through watershed and nature group activities and events, to name a few. Allen County has a regular group of Hoosier Riverwatch volunteers that do water testing as a result of the training workshops that are hosted by the county every year. For a detailed listing of volunteer hours logged for each event and to see a complete list of events or activities where volunteer opportunities were available for each year within the reporting period, please see the documents attached entitled "Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet" for the years 2019 and 2020. Overall, there were 39 volunteer hours logged during the year 2019 and 33 volunteer hours logged during the year 2020.

The following is a listing of volunteer clean-up activities along Fort Wayne's River Greenways Trails (some of which are in the county MS4) as provided by the City of Fort Wayne:

	Nov. – Dec. 2018	2019	2020
Number of Volunteers	40	5,474	2,198
Volunteer Hours	136	16,015	6,302
Bags of Trash	0	138	92
Tons of Debris Disposed	0	97.34	46.33
Feet of Riparian Zones Cleared	250	7050	450
Tons of Invasives Removed	2.5	1510	6
Tons of Woody Debris Removed	0	750	113
Tons of Floatables/Litter Removed	Not Recorded	Not Recorded	9.36

The Fort Wayne Parks' Department Riparian Manager provided the following information for their riparian corridor work crews and volunteers:

	number of volunteers	total volunteer hours	feet of riparian zone cleared by volunteers	tons of invasives removed by volunteers	tons of invasive removed (volunteers and crew)	tons of woody debris by riparian crew	tons of floatables/litter removed by riparian crew
<b>Nov-Dec 2018</b>	<b>40</b>	<b>136</b>	<b>250</b>	<b>2.5</b>	<b>5</b>	<b>0</b>	<b>not recorded</b>
<b>Complete 2019</b>	<b>554</b>	<b>2088</b>	<b>7050</b>	<b>10</b>	<b>15</b>	<b>750</b>	<b>not recorded</b>
<b>Complete 2020</b>	<b>34</b>	<b>136</b>	<b>450</b>	<b>6</b>	<b>31</b>	<b>113</b>	<b>9.36</b>

The City of Fort Wayne sponsors a Great American Clean Up annually where volunteers throughout the City of Fort Wayne and the county remove trash and debris from neighborhoods and from streams and rivers. The following information was provided by the City of Fort Wayne:

2019: 4620 volunteers, 13860 hours, and 194680 lbs. of debris collected. 2020: 2046 volunteers, 6138 hours, and 92660 lbs. of debris collected.

The City Utilities' Industrial Pretreatment Section also inspects Food Service Establishments and Permitted Industries in the sewer service area. The following is a list of their activities:

City Utilities' Industrial Pretreatment Section has an extensive Food Service Establishment (FSE) inspection in which a Coordinator explains kitchen best management practices to prevent grease from entering the main sewer lines and how to minimize Oil & Grease Exceedances. Included in the outreach binder that is explained to a member of the Food Service Establishment's management is a page explaining stormwater best management practices like, ensuring trash dumpsters and grease hoppers are closed to the elements and not leaking. In December 2018, 29 FSEs were explained stormwater BMPs; 221 FSEs in 2019 were reached, and 162 FSEs in 2020. In addition, during Industrial Permitted facility inspections stormwater concerns are addressed as they come up.

### **List of Individuals with Interest in Stormwater Program -**

Allen County has completed a list of individuals and groups likely to participate in Stormwater Programs and will update this list as additional groups come forward. The list is as follows:

Allen County 4-H

Future Farmers of America

Anthony Wayne Area Council Cub Scouts & Boy Scouts

Allen County High Schools and area High School Teachers

Purdue at Fort Wayne

Saint Joseph River Watershed Initiative

Maumee River Basin Commission

Flatrock Creek/Auglaize River Watershed Group

Upper Maumee River Watershed Group

Maumee Watershed Alliance

Hoosier Riverwatch Volunteers

Girl Scouts

Retired Volunteer Senior Corp Program

Young Leaders of Northeast Indiana

Friends of the Rivers and Save Maumee not-for-profit environmental groups

Save Maumee Grass Roots Organization – this organization focuses on trying to improve the water quality of the Maumee River. For instance, Save Maumee holds river clean up events annually in which volunteers pick up many different types of trash and debris from the river. The group also holds fundraisers staffed by volunteers featuring food, music, and door prizes that raise money for riverbank restoration materials. These materials are then utilized in annual riverbank restoration events, tree plantings, and seeding projects.

### **BMP 14 – Report A Polluter Program =**

- Utilize a Report-A-Polluter program to field complaints from the public on illicit discharges, poor erosion control, and other activities impacting stormwater.
- Include promotional materials and brochures with phone numbers for the public to utilize to contact appropriate agencies.
- Respond to complaints following office complaint flow process.
- Document the number of complaints received.

Progress –

Allen County has adopted a Report-A-Polluter form and has placed it on the Allen County Website to enable residents to report any illicit discharges, erosion control issues, or other stormwater issues discovered. Additionally, phone numbers are listed on the Surveyor's Office website and on all brochures and educational materials for residents to call the Surveyor's Office or the ACPWQ to report complaints.

All complaints from citizens are logged by the Allen County Surveyor's Office in a Microsoft Access Database by the Surveyor's Office Administrative Assistant. The Allen County Surveyor's Office has a Complaint Flow Process document that outlines step-by-step office procedures to handle complaints received by the office. Queries can be performed to isolate a complaint or certain types of complaints. A certain address can also be searched for in our historical records to determine whether past violations were found at a particular site. Our standard office complaint form is also typed up that provides the

location, caller phone number and address information, date, a description of the complaint, and who the complaint is assigned to. Once the investigation is complete and the complaint is resolved, the investigative results are input into the Microsoft Access Database and typed onto the complaint form along with when the complaint is closed out. These complaint forms are logged in a filing cabinet for future reference. For the reporting period there were 16 IDDE complaints and 14 erosion and sediment control complaints (See item 16h above).

**b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.**

Since the Allen County Partnership for Water Quality is utilized heavily to fulfill the Public Education and Public Involvement requirements, the problems encountered and any changes made as a result of those problems within the Partnership during this reporting period will be discussed.

- i.) One issue encountered during this reporting period centered on funding. The Partnership for Water Quality educator position was changed from a full-time position to a part-time position due to the City of Fort Wayne and the City of New Haven dropping out of the Partnership and the lack of funding and lessened workload those losses created to support a full-time position. As a result of the position changing to part-time, a new budget was set up by the county to fund the position. There was one issue with the new budget that was set up. The Partnership educator has determined over the past year that the amount provided in the line item for supplies and materials is too low to provide adequate resources to perform the educational duties required of the educator. As a result, a request was made for additional funding for this line item to County Council. The County Council denied the request. Consequently, the Partnership for Water Quality will now attempt to seek additional funding for supplies and materials from the co-permits, the Town of Leo-Cedarville and the Town of Huntertown, since the Partnership helps provide the necessary public education for these towns to satisfy the regulatory requirements.
- ii.) Another issue encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, many of the events and activities that the Partnership for Water Quality were scheduled to attend were cancelled. The school systems also are not allowing outside people to enter for water quality presentations/education for the students. The restrictions and cancelled events have provided a real barrier for in-person contact and have limited the Partnership's ability to meet our outreach goals. For example, the Partnership set out to reach 3,375 people in-person and attend 22 programs in 2020. Due to COVID-19, the Partnership ended up falling short on these goals. To meet the need for stormwater education, the Partnerships efforts became focused on social media, bi-weekly blog posts, and newspaper articles. Due to more office time, the ACPWQ had the opportunity to create new materials such as a new activity book for children, a regulated drain brochure, native plant handouts, and various posters for future educational efforts.

**c) Describe program BMPs that went beyond those identified in the SWQMP.**

The following is a list of activities and accomplishments for the reporting period of 2019-2020 that were accomplished for water quality public education that go beyond the requirements of the county's SWQMP:

**Matt Jarrett (Allen County MS4) leads the Partnership for Water Quality Advisory Committee and sets up all meetings and creates the meeting agendas.**

#### Stormwater Activity Book

The ACPWQ discontinued the Save the Water Activity Booklet and has created a new 8-page Stormwater Activity Booklet to help teach local youth about local watersheds and water quality issues. This booklet can be downloaded from the Partnership website at [www.acwater.org](http://www.acwater.org) and is handed out at the Partnership booth at various festivals and events. In addition, these booklets can be distributed in bulk to requesting schools and organizations in Allen County and around the state. This activity booklet was also translated to Spanish to satisfy the goal of having materials available in a second language. This Spanish activity booklet is also available on the website and is distributed at the Partnership booth at various festivals and events or upon request.

The Partnership for Water Quality also may phase out the second stormwater activity booklet that is available for younger audiences. The Partnership has around 100 copies of this activity booklet available to hand out and will determine if the younger audience still prefers this activity booklet style as opposed to the new activity booklet created in 2020 that has slightly more advanced material. If this old-style booklet is determined to be beneficial, more of these will be printed in 2022. The Partnership also may create a new and improved version of this old-style activity booklet.

For the list of events where Stormwater Activity Books were distributed and the number of Stormwater Activity Books distributed, please see the documents attached entitled "Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet" for the years 2019 and 2020.

#### Educational Posters, Stickers, Magnets, and Bookmarks

The Allen County Partnership for Water Quality produces monthly water quality tips that entails a targeted monthly water quality message in the form of a short informational article. The Partnership has shortened down versions of these that have been made into posters (with a colorful picture illustrating the monthly tip message) and stickers, magnets, and bookmarks. These materials are handed out at local community events, fairs, and festivals.

#### Storm Drain Marking

The ACPWQ advertises the storm drain marking program at events and on the Partnership website as a means for the community to get involved in cleaning up the area storm conveyance systems and preventing pollution from entering these systems. The Allen County Surveyor's Office produced several documents/forms to provide information and to aid in the volunteer storm drain marking program. Allen County established a storm drain marking Application Form that volunteers must complete in order to participate in the county's storm drain marking program. A Liability Waiver Form was also created that each volunteer must sign before they can mark the storm drains. This is to limit the county's liability in case of accident, injury, or property damage. The Surveyor's Office also created a Storm Drain Marking Guide and Storm Marker Installation Instructions for volunteers. Additionally, the Surveyor's Office created a flyer that provides information on the county's storm drain marking program that can be distributed at various events and activities. The locations of all inlets and manholes are available on GIS and GIS maps are provided to volunteers to aid in the storm drain marking.

The Surveyor's Office Storm Drain marking program consists of using adhesive to apply plastic circular markers with the message "No Dumping, Drains to Stream." These markers are purchased from Das



Manufacturing Inc. The Surveyor's Office also had Das Manufacturing make a rectangular marker that is more flexible than their standard markers with holes punched into the sides to apply these markers on yard beehive type inlets. These markers are attached with a zip tie wrapped around the inlet rib and through the holes punched in the marker. Das Manufacturing stated that very few people mark the yard inlets as Allen County is doing.

The Allen County Surveyor's Office internal staff went out and placed storm drain markers on the drains at various locations throughout the county MS4 area as a means of providing public awareness. Allen County internal staff marked 1063 storm structures. Leo-Cedarville and Hometown staff marked an additional 230 street and yard inlets within their communities, and **there were 128 storm drains marked by volunteers in residential subdivisions. Allen County now has a total of 1421 inlets and manholes that have been marked with plastic decals with the message of "No Dumping, Drains to Stream."** These decals were placed on manholes and inlets located within residential, commercial, and industrial developments.

**Additionally, during storm sewer mapping, the Surveyor's Office has noted that there are at least 4,496 inlets and manholes that have a clean water message stamped within the casting of the inlet or manhole.** The Allen County Surveyor's Office Technical Standards Manual requires all new manhole and inlet castings for new construction projects be pre-stamped with an appropriate "clean water" message that states no dumping is allowed because the storm inlets drain to the stream/river.

#### **Miscellaneous Public Education:**

The Purdue Cooperative Extension Service Master Gardner program touches on water quality through education of proper application and ways to reduce herbicides, pesticides, and other chemical applications in lawns and gardens. The Extension Office has several educators working in Allen County. They have two educators that work with the 4-H youth program, and have educators in agriculture and natural resources, horticulture, and health and human science. All of the educators are involved with community development as well.

The Fort Wayne - Allen County Department of Health provides a brochure for citizens entitled "Inquire Before You Are a Buyer." The brochure is a guide to septic system evaluations for prospective home buyers that discusses what a septic system is, what to do if you are planning to buy a home with a septic system, describes what a certified septic evaluation entails, the steps involved and why it's important to have this done before buying a home, and describes how to maintain a septic system.

July 2020 - Northeast Indiana Water Trails – Pedal, Paddle, Play Event. The event offers participants the chance to explore northeast Indiana's land and water trails at their own pace.

Spring 2019 - The Allen County Regional Sewer District continues to extend sanitary sewer service to existing county homes that have failing residential septic systems in southeast Allen County.

New for 2020 - The Allen County Surveyor's Office has a big screen TV monitor in the public waiting area where a pollution prevention educational message slide show runs on the screen saver of the TV for the public to view. The messages are seasonal and are updated on a regular basis to fit each season.

#### **Wellhead Protection Areas**

A wellhead protection area is located north of the Leo-Cedarville MS4 area and serves the Honeysuckle and Tullymore subdivisions. The City of Fort Wayne developed a Wellhead Protection Plan to help

protect groundwater quality in this area. The City of Fort Wayne maintains this 3,000-foot radius wellhead protection area and has a plant to supply water via two wells and a treatment facility to supply treated well water to 25 homes. They are required to do education, are responsible for implementing best management practices to protect the wells, and have a pollution prevention plan for this wellhead protection area. The City held a public meeting of the Local Planning Team on August 7, 2019 with an open house that followed that allowed residents to learn more about the wellhead protection plan. The City also distributed educational information regarding household hazardous waste and pollution prevention information to the residents. The City is required to test the water at this site and make sure it meets filtration plant standards.

*Little River Wetland Project:*

The mission of Little River Wetlands Project, Inc. and Eagle Marsh is to facilitate the restoration of wetlands in the historical Little River watershed and provide educational opportunities that inspire and challenge individuals to be good stewards of all natural resources.

The programs of Eagle Marsh educate people of all ages about wetlands and related nature topics. People regularly volunteer at the events. This organization is also a good neighbor, supplying consultation to private parties who wish to preserve or restore their land, opportunities for scientific study to nearby universities, and recreation in the form of hiking, birding, and nature photography for the 375,000 residents of Allen County and surrounding areas. The Allen County Partnership for Water Quality and the Little River Wetland Project staff mutually promote each other's events. Staff from the Little River Wetlands Project regularly attend the Allen County Partnership for Water Quality Advisory Committee meetings.

The Little River Wetlands non-for-profit has an educator on staff that offers different training opportunities. The following training opportunities are offered regularly to the public concerning environmental issues:

Breakfast at the Marsh - this is a monthly training event for nature lovers 50 and over where there are different topics and speakers for each monthly meeting. For example, on November 14, 2019 there was a presentation called Urban Habitats Improve Water Quality that discussed how urban areas present unique ways in which residents can either help or hinder improving water quality.

April 28, 2019: Earth Day Event (afternoon event with speakers discussing ways to protect and preserve our native wildlife and their habitat)

June 9, 2019: Family Friendly Turtle Festival

November 8, 2019: Night Owls presentation and hike

November 16, 2019: Weed Wrangle presentation and hike

February 1, 2020: World Wetlands Day (various activities were scheduled throughout the day)

March 7, 2020: iNaturalist Training (training on the use of this app.)

June 11 & 13, 2020: Invasive Species Training

April 10, 2019; March 18, June 17 & 24, 2020: Short Hikes for Short Legs: Pond

Dipping/Pollinators/Wetland Plant Seeds (kids' program that occurs monthly on different topics)

June 18 & 20, 2020: Monarch Monitor Training

June 26 & 27, 2020: Turtles program

Every Tuesday: Ramblers Hike through the Marsh

**Videos**

The Partnership distributes videos to address erosion and sediment control and water pollution as follows:

*“A Watershed Mentality” Documentary:*

The Allen County Partnership for Water Quality received a grant from the Great Lakes Commission and produced a documentary on soil erosion and sedimentation in the Maumee River Basin. PBS television channel 39 in Fort Wayne helped in the production of the video. The video shows footage of pollution of our area waterways, shows the impacts of environmental destruction on our ecosystem, shows the damage to the economy and jobs, shows some success stories on controlling erosion and improving water quality, and describes how public attitudes toward the environment have changed. Additionally, interviews with various mayors and public officials, laypeople, and other professionals were done. The video aired on PBS Channel 39 for several nights when it was released. It has been adopted by National PBS for distribution to other affiliates.

“A Watershed Mentality” has been cited by the Great Lakes Commission as being the “...new standard in erosion and sediment education” for their agency. This video also gathered awards and nominations for its’ content. Among these was the Governor’s Award for Environmental Excellence in the field of Outreach or Education. This makes the second time the Partnership has won this award (first was the Storm Water Activity Book). The award recognizes Indiana’s leaders who have implemented outstanding environmental strategies into their operations and decision-making processes. This video was provided to all Allen County libraries.

*Septic Systems: Out of Sight, Not Out of Mind Parts 1-5*

These five videos were produced by the Fort Wayne/Allen County Health Department and the St. Joseph River Watershed Initiative. These videos explain what a septic system is, what it does, and how problems can be prevented through regular inspection and proper upkeep. Copies are available at the health departments and soil and water conservation districts in Allen, Noble and DeKalb counties. Allen County provides the first video to all homes that have installed a new septic system or replaced a septic system.

To watch any of these videos online, visit <http://www.allencountyhealth.com/get-licensed/private-sewage-disposal-systems/> or visit Allen County’s YouTube channel at <youtube.com/user/allencountyinfo>

*“Green Sells” Construction BMP Video:*

The Allen County Partnership for Water Quality received a grant from the Great Lakes Commission to produce a video for developers and contractors on best management practices for reducing sedimentation and erosion. The 15-minute video focuses on the cost-benefits of compliance with the NPDES regulations and on the project management needed to comply. The video is available to view through the [www.acwater.org](http://www.acwater.org) website. This video was provided to all Allen County libraries.

The Allen County Partnership for Water Quality staff and volunteers provided watershed, water quality, and pollution prevention education to adults and children by participating in many community events and providing presentations, workshops, and training sessions at various venues throughout the county during the years 2019 and 2020. The list of community events, presentations, workshops, training sessions, and activities where the Partnership provided public education and outreach can be viewed in the documents attached entitled “Allen County Co-Permit - Allen County Partnership for Water Quality Activity Tracking Sheet” for the years 2019 and 2020. These documents describe the events that the Partnership sponsored or participated in and provide information on the number of people present at

the event along with the numbers of brochures, Stormwater Activity Books, and Project WET Modules used during presentations along with the number of volunteer hours logged.

Overall Summary: For the year 2019, the Allen County Partnership for Water Quality reached over 25,800 people in direct contact through the activities and events that the Partnership sponsored or participated in, and distributed around 2346 brochures and fliers promoting water quality issues. For the year 2020, the Partnership reached over 36,574 people in direct contact through the activities and events that the Partnership sponsored or participated in, and distributed over 1325 brochures and fliers promoting water quality issues.

**d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.**

See item 17 (a) above for storm water BMPs installed or initiated for this MCM.

**e) Describe program implementation partnerships and explain successes and barriers during this reporting period.**

The Allen County Partnership for Water Quality utilizes a part-time Water Resource Education Specialist to educate the public and media on water resource issues. The Allen County Partnership for Water Quality part-time educator now resides in the Allen County Department of Environmental Management (ACDEM) to allow networking of resources with the ACDEM recycling/reuse/household hazardous waste Communications and Outreach Coordinator, who provides public education to county constituents. The educators work together as a partnership to expand their opportunities and resources and to come up with different educational ideas.

In order to provide further guidance, direction, and networking opportunities for the educator, a Partnership for Water Quality Advisory Committee meets quarterly. This committee is made up of the MS4 co-permits and other county departments and entities with some type of water quality educational goal, such as the Allen County Soil and Water Conservation District, the Health Department, the County Department of Environmental Management (formerly the Solid Waste District), County Parks Department, Purdue at Fort Wayne, and the Little River Wetlands Project representative among a few others. During the meetings, potential educational opportunities are provided for the part-time educator as county-wide partners with environmental interests are able to provide information on area community events and activities that the educator could attend to further the educational goals of the Partnership. Partner and community requests for service are also evaluated to see if they meet the goals of the Partnership and are the best use of the Partnership resources. Attendees of each meeting are tracked with a sign-in sheet. Meetings are open to the public.

As far as barriers during the reporting period, one barrier encountered during this reporting period centered on funding. The Partnership for Water Quality educator position was changed from a full-time position to a part-time position due to the City of Fort Wayne and the City of New Haven dropping out of the Partnership and the lack of funding and lessened workload those losses created to support a full-time position. As a result of the position changing to part-time, a new budget was set up by the county to fund the position. There was one issue with the new budget that was set up. The Partnership educator has determined over the past year that the amount provided in the line item for supplies and materials is too low to provide adequate resources to perform the educational duties required of the educator. As a result, a request was made for additional funding for this line item to County Council. The

County Council denied the request. Consequently, the Partnership for Water Quality will now attempt to seek additional funding for supplies and materials from the co-permits, the Town of Leo-Cedarville and the Town of Huntertown, since the Partnership helps provide the necessary public education for these towns to satisfy the regulatory requirements.

Another barrier encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, many of the events and activities that the Partnership for Water Quality were scheduled to attend were cancelled. The school systems also are not allowing outside people to enter for water quality presentations/education for the students. The restrictions and cancelled events have provided a real barrier for in-person contact and have limited the Partnership's ability to meet our outreach goals. For example, the Partnership set out to reach 3,375 people in-person and attend 22 programs in 2020. Due to COVID-19, the Partnership ended up falling short on these goals. To meet the need for stormwater education, the Partnership's efforts became focused on social media, bi-weekly blog posts, and newspaper articles. Due to more office time, the ACPWQ had the opportunity to create new materials such as a new activity book for children, a regulated drain brochure, native plant handouts, and various posters for future educational efforts.

**f) Other:**

**Co-Permittee Activities:**

Leo-Cedarville

The Town of Leo-Cedarville has the following water quality related activities to report for this reporting period:

**June 3, 2019 – Utility Billing Booklet Stuffers**

The Partnership for Water Quality provided 1300 brochures to the Town of Leo-Cedarville for the town's use as utility billing booklet stuffers that are mailed out to their residents.

**2/12/2020 & 3/11/2020 – Leo-Cedarville Y After Care Program (MCMs 1,2,3)**

The Allen County Partnership for Water Quality educator provided several presentations pertaining to water quality educational topics to the children in Y-Care at the Leo-Cedarville location.

**8/29/2020 – Leo-Cedarville Bloom Fest (MCMs 1,2,3)**

The Allen County Partnership for Water Quality educator had an educational booth at this festival. The educator was able to provide educational outreach to about 600 people.

The Town of Leo-Cedarville places information on the town's website that advertises the Allen County Department of Environmental Management Tox-Away Tuesday's for dropping off Household Hazardous Wastes. The town also placed information on their website on recycling (what can be recycled), yard waste recycling (describing the program), and curb-side leaf pick-up (provided schedule for pick-up).

The Town of Leo-Cedarville utilizes Facebook posts on the town's Facebook page to provide the Partnership for Water Quality monthly water quality educational tips and Water Matters articles to residents.

On-going – monthly minutes published in the local newspaper (Courier) regarding stormwater meetings.

The Town holds monthly public stormwater utility board meetings on the second Tuesday of the month. Residents are invited to attend to express stormwater concerns. The monthly minutes from this meeting are published in the local newspaper (The Courier).

Leo-Cedarville provides water quality related brochures for their residents at their Office of the Town.

#### **Training Activities:**

##### **June 17, 2019 – Municipal Facility Good Housekeeping & Pollution Prevention Training (MCMs 3,4,5,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided good housekeeping and pollution prevention training, illicit discharge training, and construction and post construction municipal project training to Allen County employees and Leo-Cedarville and Huntertown maintenance employees. A presentation and videos were provided for this training. There were 16 employees present with the large majority comprising Allen County Highway Barn employees.

##### **June 26, 2019 – Training for Leo-Cedarville Employees (MCMs 1,2,3,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided the Town of Leo-Cedarville employees with training to prepare for the upcoming IDEM audit on public education, public involvement, IDDE, and good housekeeping and pollution prevention. An overview of their program and the materials necessary for the audit were discussed along with areas needing improvement. There were 5 town hall employees present for this training.

##### **September 24, 2019 – Grabill County Night Out (MCMs 1,2)**

The Town of Grabill is located very close to Leo-Cedarville. This event provides an opportunity for nearby residents to come to this event and ask questions to various county departments and their representatives. The Allen County Partnership for Water Quality educator attended this event and answered various questions from the public regarding water quality.

##### **February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors, developers, engineers, and municipal employees.

## LEO-CEDARVILLE IDEM Activity Log 2019-2020

<b>IDEM Activity Log 2019</b>		
Date	Name	Activity
1/7/2019	Rick	Placed 3 ton of #73 stone on north side of Walnut ST.
1/24/2019	Jacob	cleaned shop drains
2/7/2019	Rick	Added thread-less water sample tap per inspection at PWSID IN2020972
		Added salt NSF certification per inspection at PWSID IN2020972
	Jacob	Added salt NSF certification per inspection at PWSID IN2020042
2/21/2019	Rick	WASH F 550 AT CAR WASH
	Jacob	wash 3500 at car wash
3/7/2019	Rick	attended Road School
3/12/2019	Rick & Jacob	cleaned storm drains throughout town, 1/2 yard of leaves, sticks, gravel and bottles
3/15/2019	Rick & Jacob	cleaned out concrete storm ditch on Markham CT, 1 yard of mostly leaves
3/20/2019	Rick	LTAP class PASER
5/22/2019	Rick & Jacob	cleaned mostly grass, some trash from storm drains. 200#
5/22/2019	Rick & Jacob	placed 40 ton of #2 and 40 ton of #73 stone for parking at Riverside Gardens
5/31/2019	Rick & Jacob	replaced broken storm grate at 15022 Lions Passage
6/12/2019	Rick & Jacob	East side of Schwartz Rd, south end of property repaired old clay tile drain pipe by road, cable Co. plowed line
		through tile sometime. Used approximately 500# of gravel and 7' of pipe.
6/14/2019	Rick	Wash 1500 at car wash
6/17/2019	Rick	Good Housekeeping and pollution training
6/23/2019	Rick	graded 1.5 ton of #73 stone on alley at 15025 Center St
6/24/2019		Rick Fearnow, Amy Rekeweg, Pat Proctor, Pam Spannuth met with Matt Jarrett for IDEM training class
8/15/2019	Rick & Jacob	Re-tapered ditch for water to flow off of road 13220/13230 Cherry St
8/23/2019	Jacob	Street sweep Amstutz (1.5Ton) Sand, dirt, gravel, & small sticks
8/26/2019	Rick & Jacob	clean storm drains 50# grass and leaves
8/30/2019	Jacob	cleaned Leo Cedarville parking lot. Removed 100# of gravel and dirt.
7/10/2019		State audit performed
10/14/2019	Rick & Jacob	cleaned storm drains throughout town, 1/2 yard of leaves, grass
12/9/2019	Rick & Jacob	cleaned storm drains 1.5 yards of leaves
12/12/2021	Rick & Jacob	Hauled 71 loads of leaves from leaf vac to Ringenberg Garten Haus.

<b>2019</b>		
<b>PUBLIC OUTREACH AND EDUCATION</b>		
February	Amy	Stormwater Public Education Mailer sent w/Annual Town Informational Flyer - Direct Mail (1,329)
April	Amy	Monthly Stormwater Tip Posted on Town's Facebook Page - Information received from Allen County
May	Amy	Monthly Stormwater Tip Posted on Town's Facebook Page - Information received from Allen County
July	Amy	Monthly Stormwater Tip Posted on Town's Facebook Page - Information received from Allen County
October	Amy	Monthly Stormwater Tip Posted on Town's Facebook Page - Information received from Allen County
November	Amy	Monthly Stormwater Tip Posted on Town's Facebook Page - Information received from Allen County
December	Amy	Stormwater Public Education Mailer sent w/Quarterly Billing - Direct Mail (1,329)
Jan - Dec	Pam	Minutes from all 2019 Meetings (and 2020 meeting) have been posted on the Town's Website, at <a href="http://www.LeoCedarville.com">www.LeoCedarville.com</a>
Sept - Oct	2019-2020	Annual Fall Leaf Vac Schedule advertised in the East Allen County Courier (2x) & Posted on Town Website

<b>IDEM ACTIVITY LOG 2020</b>		
9-Jan	Rick and Jacob	Picked up four bags of trash out of ROW.
9-Jan	Jacob	Cleaned storm drains, 1 yard of leaves and sticks.
10-Jan	Rick and Jacob	Cleaned 1/2 yard of gravel from Grabill Rd from someone spilling load.
28-Jan	Jacob	Chevrolet 3500 truck wash at car wash
5-Mar	Rick	Estimated road salt use 2019-2020, 100.06 ton
12-Mar	Rick	wash 550 at car wash
12-Mar	Jacob	wash 350 at car wash
31-Mar	Rick	clean storm drains 1 yard mostly leaves and sticks little trash
	Rick	street sweep collected 2 yards of debris
	Jacob	street sweep collected 2 yards of debris
29-Apr	rick	rework alley between Walnut and Main, used 59.91 tons of #73 gravel
3-Jun	Rick and Jacob	clean storm drains, sweep Amstutz and Hosler 1-yard dirt gravel small amount of trash
11-Jun	Rick	rework alley between Main and Hosler, used 19.94 tons of #73 gravel
16-Jul	Rick and Isaac	swept Grabill, Hosler, Amstutz, Manning and Clay 2 yards of debris
17-Jul	Rick and Jacob	pick up trash from ROW
4-Aug	Rick and Jacob	clean storm drains, 1/2 yard of mostly grass and leaves



13-Aug	Jacob	F350 washed at Mikes car wash
9-Sep	Rick	transient water audit Riverside gardens
26-Oct	Rick and Jacob	Town leaf collection 10/26-11/30/2020, leaves taken to Ringenburg Garden Haus, 64 loads.
4-Dec	Rick	Chevy 1500 truck wash at Mikes Car Wash
4-Dec	Jacob	Wash 3500 and leaf vac at car wash
9-Dec	Jacob	20 yards concrete, dirt, and street sweepings hauled to land fill
15-Dec	Jacob	street sweep collected 2 yards of debris
16-Dec	Rick and Jacob	repaired 10" drain tile, used 1 yard of dirt to refill hole at Amstutz Rd and Homestead
<b>PUBLIC EDUCATION</b>		
Jan-20	Amy	Posted December 2019 Stormwater Meeting Minutes to Website
2/3/2020	Amy	Posted February water quality tip to facebook, 591 people reached, 3 reactions, 10 post clicks
Feb-20	Amy	Posted January Stormwater minutes to website
3/2/2020	Amy	Posted March water quality tip to facebook, 486 people reached, 1 reaction, 9 post clicks
March 2020	Amy	Posted February Stormwater minutes to website
April 2020	Amy	Posted March Stormwater minutes to website
April 1, 2020	Amy	Posted April water quality tip, 105 people reached, 0 reactions, 3 post clicks
May 2020	Amy	Posted April Stormwater minutes to website
Jun-20	Amy	Distributed Stormwater Tips with Quarterly Stormwater Utility Bills (1,329 sent)
Sep-20	Pam	Distributed Stormwater Tips with Quarterly Stormwater Utility Bills (1,329 sent)

### Huntertown

The Town of Huntertown has a wellhead protection area on the south end of town. The Town of Huntertown developed a Wellhead Protection Plan to fulfill the State of Indiana’s Wellhead Protection Rule.

The Town of Huntertown provides a free drop-off area near the town’s maintenance facility for residents to drop off yard waste and small woody vegetation. Residents can also pick up compost from this pile for their use at their leisure. This helps prevent yard waste from being disposed of improperly and helps keep this refuse away from the storm conveyances.

The Town of Huntertown utilizes Facebook posts on the towns Facebook page to provide the Partnership for Water Quality monthly water quality educational tips and Water Matters articles to residents.

The Town of Huntertown performed smoke testing to determine if there was stormwater infiltration into the town's sanitary sewer system.

Huntertown maintenance crews make a point to street sweep on a regular basis to pick up litter and inorganic debris to prevent these materials from entering into the storm sewer system. The Town cleans out all catch basins annually.

The Huntertown Town Maintenance facility utilizes a new winter de-icing agent called "Magic Salt" that is made from a patented blend of magnesium chloride and condensed distiller solubles. It is non-toxic, bio-degradable, environmentally friendly (releasing far less chlorides into the environment than either plain rock salt or calcium chloride) and has a corrosion index lower than distilled water. Rock salt applications are reduced by 30-50%. The need for sand on pavement is virtually eliminated.

### **2019-2020 MS4 ACTIVITY REPORT for Town of Huntertown**

1. Huntertown swept just over 100 miles of streets in 2020. The official INDOT mileage for 2020 is 58.496 miles. Huntertown tries to sweep their streets at least twice annually.
2. Amount of material collected from street sweeping and roadside storm drain clean-out = Approximately 20 tons.
3. Roadside Drain Projects – Hathaway Rd from Lima to Bethel. Oak and Hieber Streets north of Huntertown Elementary School. New drain being installed now.
4. Tile jetted in 2019 and 2020 – Carroll Rd in two places by Allen County Fairgrounds where storm drain runs under Carroll Rd. Oak Street and Hieber Street catch basin failing.
5. Roadside drainage projects for 2021 will include Bethel Rd, between Carroll and Hathaway Rds and Gemini/Mercury/Apollo Drives.
6. Rip Rap was installed in new drainage swales created on Gump Rd between State Rd 3 and Dunton Rd.
7. Facebook Posts – the Town of Huntertown has a Facebook page, and they post all of the water quality literature they receive from the Allen County Surveyor's Office and the Allen County Department of Environmental Management office.
8. Salt-Sand Management - Huntertown purchases salt and sand from the Allen County Highway Department as per an Inter-local Agreement. They normally use 75 to 100 tons annually.
9. Complaints - the town hasn't received any complaints regarding illegal dumping/illicit discharges or erosion and sediment control issues during this reporting period.
10. Cleaning and Inspection of ALL Road Storm Drainage (Annually)
11. The Town does Leaf Pick Up in the Fall.
12. Huntertown maintenance employees do utility construction inspections on new sanitary sewer and water main installations. The inspections entail watching contractors properly bed the pipe systems to inspecting the shutoffs at the connection points.

### **Huntertown Training Activities**

**June 17, 2019 – Municipal Facility Good Housekeeping & Pollution Prevention Training (MCMs 3,4,5,6)**  
Allen County MS4 Coordinator, Matt Jarrett, provided good housekeeping and pollution prevention training, illicit discharge training, and construction and post construction municipal project training to

Allen County employees and Leo-Cedarville and Huntertown maintenance employees. A presentation and videos were provided for this training. There were 16 employees present with the large majority comprising Allen County Highway Barn employees.

**June 27, 2019 – Training for Huntertown Employees (MCMs 1,2,3,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided the Town of Huntertown employees with training to prepare for the upcoming IDEM audit on public education, public involvement, IDDE, and good housekeeping and pollution prevention. An overview of their program and the materials necessary for the audit were discussed along with areas needing improvement. There were 2 town hall employees present for this training.

**October 8, 2019 – Huntertown County Night Out (MCMs 1,2)**

This event provides an opportunity for Huntertown residents to come to this event and ask questions to various county departments and their representatives. The Allen County Partnership for Water Quality educator attended this event and answered various questions from the public regarding water quality.

**February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors, developers, engineers, and municipal employees.

**18. Identify the best management practices for public participation and involvement included in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.**

See item 17 (a) above as MCM 1 and 2 have both been addressed in section 17 above.

- b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.**

An issue that occurred during this reporting period centered on certain groups such as Save Maumee wanting to plant trees and riparian buffer corridors along county regulated drains. These groups obtain grant money for these projects and use a number of volunteers to help plant these trees. This sometimes conflicts with the Surveyor's Office goals of having maintenance access to the drains and

keeping fallen trees and debris out of the flow channel of the ditch. The Surveyor's Office will continue to work with these groups to find an amenable way for each party to accomplish their goals.

Of course, COVID-19 created an implementation problem as public participation in events, activities, and public meetings was strained due to the on-going pandemic throughout 2020. Changes to address this included more Zoom and social media meetings being utilized to obtain public input. In-person meetings that were held had to be scheduled in large conference rooms to accommodate social distancing. Attendance at in-person meetings was low and many times on-line options for meeting access have to be included to keep attendance numbers at a suitable level.

See item 17 (b) above for further information regarding this item.

**c) Describe program BMPs that went beyond those identified in the SWQMP.**

See item 17 (c) above as MCM 1 and 2 have both been addressed in section 17 above.

**d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.**

See item 17 (d) above as MCM 1 and 2 have both been addressed in section 17 above.

**e) Describe program implementation partnerships and explain successes and barriers during this reporting period.**

As a success, the Education Specialist for the Allen County Partnership for Water Quality has formed contacts and partnerships with other environmental groups, other county departments, local watershed groups, and Little River Wetlands Project educators to assist back and forth with resources where needed for water quality public education and public involvement. The Partnership has established a networking list of contacts for different service groups, agencies, teachers, and clubs that may seek water quality education and has now become sought after to continue to provide education for each of these groups/agencies' annual events.

The barriers for this reporting period are getting new people involved in volunteering for water quality events and activities and taking part in public meetings, as often times it is the same people that attend and volunteer their services. Funding continues to be a barrier as our supplies and materials line item in the budget is too low to provide adequate resources to perform the educational duties required of the educator.

Another barrier encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, many of the events and activities that the Partnership for Water Quality were scheduled to attend were cancelled. The school systems also are not allowing outside people to enter for water quality presentations/education for the students. The restrictions and cancelled events have provided a real barrier for in-person contact and have limited the Partnership's ability to meet our outreach goals. For example, the Partnership set out to reach 3,375 people in-person and attend 22 programs in 2020. Due to COVID-19, the Partnership ended up falling short on these goals. To meet the need for stormwater education, the Partnerships efforts became focused on social media, bi-weekly blog posts, and newspaper articles. Due to more office time, the ACPWQ had the opportunity to create new materials such as a new activity book for children, a regulated drain brochure, native plant handouts, and various posters for future educational efforts.

See item 17 (e) above for further information regarding this item.

**f) Other:**

See item 17 (f) above as MCM 1 and 2 have both been addressed in section 17 above.

**19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).**

**BMP 1 – Stormwater System Mapping**

- Enhance existing MS4 maps with additional details regarding locations, sizes, and types of outfalls as the IDDE plan is implemented
- Add new outfalls and conveyance systems to the map for the appropriate jurisdiction per ordinance as-built requirements for new developments

**Progress –**

As required by Rule 13, the county has mapped existing storm conveyances within the county's MS4 area and continues to map the locations of all outfalls and conveyances under the MS4 operator's control where new development occurs. Additionally, the county has mapped some areas outside of the MS4 boundaries as time has allowed.

Allen County took this requirement one step further and mapped not only the locations of the outfalls and conveyances, but also the entire stormwater pipe system, including the locations of all stormwater pipes, manholes, inlets, control structures such as weirs and control valves, and grade beam and control outlets. Additionally, the physical aspects of each of these structures was also documented such as the size, casting type, number of inflow and outfall pipes, and whether there are weeper holes, mortar collars, or poured inverts. The county also has documented whether the castings are marked per the requirements of the storm drain marking program. This will help determine where future storm drain marking activities need to be done. Post construction best management practice locations are also being mapped. Pictures of each outfall or post construction BMP were taken and logged in a database and linked to each outfall or post construction BMP location. When viewing each outfall/BMP mapped digitally within GIS, it is possible to click on each outfall/BMP located within the GIS map and bring up a picture of that particular outfall/BMP. These pictures will help serve as a historical reference for each outfall and BMP. Also, within GIS, the county has input and linked the Outfall Reconnaissance Inventory Reports and Illicit Discharge Testing Reports. By clicking on an outfall within GIS, these reports can be brought up within GIS for that particular outfall, providing a historical view of each outfall with respect to illicit discharges.

The county has also begun mapping such things as repair points, filter strips, taps, obstructions, beaver dams, bank slides, debrushing areas, sandbars, and debris/log jam areas as time allows.

**BMP 2 – IDDE Ordinance**

- Periodically review the IDDE language contained in the Ordinance documents for needed updates and to ensure compliance with Rule 13
- Enforce the IDDE Ordinance requirements

Progress –

The Allen County Stormwater Management Ordinance was passed by the Board of Commissioners of Allen County on April 25<sup>th</sup> of 2008. This ordinance includes the requirements for the Illicit Discharge Detection and Elimination Minimum Control Measure as specified by Rule 13. The Allen County Stormwater Management Ordinance and IDDE Ordinance section can be found on the Allen County Surveyor’s Office website. Allen County uses this Ordinance to enforce the requirements of the Illicit Discharge program.

Allen County’s Illicit Discharge Ordinance is currently being reviewed by the Surveyor’s Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made. All changes to the Ordinance will be approved by the Commissioners. The Allen County Technical Standards Manual is also being reviewed by the above-mentioned parties’ to make necessary updates and revisions.

The Illicit Discharge Ordinance is enforced by the Allen County Surveyor’s Office. The statutory authority of the Ordinance is referenced in all letters of violation to offenders and provides the authority to issue enforcement actions as necessary.

### **BMP 3 – IDDE Plan**

- Review the IDDE Plan and update as necessary to reflect the proposed actions for illicit discharge detection and elimination in the current permit term
- Implement the IDDE plan to detect, address, and eliminate illicit discharges into the MS4 conveyance system within MS4 jurisdiction

Progress –

The Allen County Co-Permit updates their Stormwater Quality Management Plan Part B: Baseline Characterization Report on a regular basis as required by the regulatory requirements. Christopher Burke Engineering, LLC helped perform the last update for this document. Items that are updated regularly include receiving waters, TMDL watersheds and 303(d) impaired waters, land cover areas and demographics, and the assessment of structural and non-structural best management practices. This document is available on the Allen County Surveyor’s Office website.

In order to determine the potential severity for illicit discharges within Allen County, the Allen County Surveyor’s Office performed a Desktop Assessment of Illicit Discharge Potential. This Desktop Assessment was used as a guide for initial field screening and is used to identify high priority areas to focus the IDDE program resources.

The county developed an Illicit Discharge Detection and Elimination Plan and Procedure Guide that details the county’s plan to locate, eliminate, and prevent illicit discharges. This guide manual is a 20 page document that the Surveyor’s Office put together that details a step by step process and plan for establishing the county’s IDDE program and then performing the necessary steps for detecting and eliminating illicit discharges. Additionally, several forms were created to allow test results and investigative results to be documented. Furthermore, a field guide was created for staff to provide a

procedural guide for Allen County inspectors to utilize and aid in performing Illicit Discharge Detection and Elimination (IDDE) program requirements.

The Allen County Surveyor's Office Illicit Discharge Detection and Elimination Plan is reviewed annually to update and review what program plan elements are working and where improvements may be needed. The county's illicit discharge detection and elimination strategies are constantly adjusted to reflect knowledge gained from field screenings, citizen complaints, and other monitoring information. Priority watershed areas for future dry weather screening activities are modified based upon past complaints and screening results. Educational efforts through the Surveyor's Office and the Allen County Partnership for Water Quality concerning illicit discharges are also tailored based upon past screening efforts and complaints.

Currently, every outfall that is GPS mapped is also dry weather screened for illicit discharges during mapping as the county has a specific question addressing this within the GPS meters. Currently, there have been about 2,399 outfalls screened for illicit discharges. These include outfalls that discharge to detention ponds and swales. An Outfall Reconnaissance Inventory Report is completed for outfalls that are noted as having a potential illicit discharge at the time of dry weather screening. These outfalls are also marked in GIS as having a potential illicit discharge and the ORI report is linked to that particular outfall. Pictures of each outfall are taken and logged into a database for future reference to show that illicit discharges did or did not appear at the time the picture was taken and what the outfall looked like at that particular point in time. Outfalls documented as having potential illicit discharges and their locations are then logged into a spreadsheet for future water testing to determine if an illicit discharge is present.

Outfalls where an obvious illicit discharge is present are investigated immediately to determine the source of the discharge and to correct the discharge. Complaints of illicit discharges are also investigated immediately to determine if an illicit discharge is present and if so, correct and eliminate the source of the discharge.

#### **BMP 4 - IDDE, Good Housekeeping, and Pollution Prevention Staff Training**

- Train appropriate staff members on hazards associated with illicit discharges, improper disposal of waste, and other Good Housekeeping & Pollution Prevention Practices
- Conduct annual refresher training to appropriate departments and staff
- Document number of staff trained, number of training events held, and the curriculum covered in each training session

The following training opportunities regarding IDDE and Good Housekeeping and Pollution Prevention were provided to Allen County municipal staff, along with the number of staff members attending each event. IDDE education is also provided to the public with the help of the Allen County Partnership for Water Quality.

#### **January 15, 2019 – Inlet Protection & Pollution Prevention Lunch and Learn (Training for MCMs 3,4,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Inlet Protection & Pollution Prevention provided by EJ Prescott, Incorporated. The presentation provided information on drop inlet protection insert products, secondary containment products, berming products, dewatering bags, spill kits, and portable concrete washout containers made by ENPAC LLC. There were 3 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**January 31, 2019 – St. Marys River Stream Assessment Study Results Presentation (Training for MCMs 1-6)**

A presentation was provided on the results of the St. Marys River Stream Assessment Study that was completed by Siavash Beik of Burke Engineering and Robert Barr of IUPUI. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality. There were about 25 people in attendance.

**February 7, 2019 – Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, In Lieu Fee Program Updates, IDEM Wetlands Coordination, Industrial Outreach for MS4s, and a Site Inspection Stormwater Clinic to name a few. There were four people from the Allen County Surveyor's Office that attended and 6 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 12, 2019 – Sediment Control & Stormwater Management Lunch and Learn (MCMs 3,4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Sediment Control & Stormwater Management provided by EJ Prescott, Incorporated. The lunch and learn discussed various sediment control measures and stormwater management best management practices on construction sites. There were 3 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**Regional Sewer District - Spring 2019**

The Allen County Regional Sewer District continues to extend sanitary sewer service to existing county homes that have failing residential septic systems in southeast Allen County.

**April 30, 2019 – Illicit Discharge Detection and Elimination Webinar (MCM 3)**

This one-hour webinar identified and provided examples of commonly encountered illicit discharges, discussed various methods and means available to assist with the elimination of illicit discharges, provided guidance for IDDE program compliance documentation, and discussed a field guide for MS4 personnel. Matt Jarrett (Allen County MS4 Coordinator) from the Surveyor's Office attended this webinar.

**May 14, 2019 - Indiana MS4 Partnership Annual Meeting (MCMs 1-6)**

The Allen County Surveyor's Office attended the IDEM annual MS4 meeting to be trained on information concerning the regulatory requirements of the MS4 programs. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality.

**August 6, 2019 – Day at the Lake (MCMs 1-6)**

This was a field trip open to the public where residents could take a bus trip to Lake Erie and take a tour of an open lab on the lake to see demonstrations of water quality tests performed by Ohio State University faculty on the lake waters. Presentations on water quality topics were also provided by Ohio State faculty. There were 4 people from the Allen County Surveyor's Office that went on this trip and there were about 50 residents that went on this day long bus trip.

**September 4-6, 2019 - INAFSM Annual Conference (MCMs 1-6)**



Matt Jarrett, MS4 Coordinator for Allen County, and Jackie Buck, educator for the Allen County Partnership for Water Quality attended the INAFSM conference in Fort Wayne in its entirety. This conference had many presentations on varying water quality and stormwater topics.

**October 3, 2019 – Construction Site Stormwater Management Workshop (MCMs 3-6)**

The City of Fort Wayne hosted a daylong water quality workshop for engineers, contractors, developers, and municipal employees where presentations were provided on Polymers, Stormwater Management and Contractors, Parkview Field Stormwater, Drone Technology, House Bill 1266 Permit Revisions, Case Studies from AEP's Stormwater Management Programs, and Indiana Statutes and Rules Applicable to the Practice of Engineering. There were PDHs available to participants at this workshop. There were about 50-70 people at this workshop including the Allen County MS4 Coordinator.

**November 19-21, 2019 – Migrating from ArcMap to ArcGIS Pro (MCMs 3,5)**

This workshop provided training for migrating from GIS ArcMap to ArcGIS Pro, which is used to map pipe systems, storm structures, outfalls, and post construction BMPs. There were 6 people from the Surveyor's Office that attended.

**February 6, 2020 - Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, discussed IDEM's Electronic Regulatory Portal for Construction Sites, had a presentation on Gross Solids Removal to Improve Water Quality, and a Site Inspection Stormwater Clinic to name a few. There were five people from the Allen County Surveyor's Office that attended and 2 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors, developers, engineers, and municipal employees including the Allen County Highway Department and Surveyor's Office.

**September 16-18, 2020 – INAFSM Annual Conference (Virtual) (MCMs 1-6)**

This virtual conference provided presentations on varying water quality and stormwater topics that covered training on all the minimum control measures. Many of the presentations discussed the new IDEM construction and MS4 general draft permits that are scheduled for ratification in 2021. Matt Jarrett, MS4 Coordinator for Allen County attended 10 virtual sessions and the Surveyor's Office

stormwater quantity plan reviewer attended most all of the virtual sessions. Allen County's part-time MS4 educator also attended the MS4 sessions.

**September 27, 2020 – World Rivers Day Ecology Tour (MCMs 1,2,3)**

Two ecology tours of the St. Joseph River in Fort Wayne were offered on a pontoon going up and down the river. During the tour, the organizer offered educational information to the participants regarding the ecology and water quality along the river. Matt Jarrett, MS4 Coordinator for Allen County participated in the second tour.

**October 13 & 20, 2020 – Fort Wayne City Utilities Virtual Training Sessions (MCMs 3-6)**

During the month of October, the City of Fort Wayne hosted weekly online training sessions for Stormwater and Water Quality Professionals and Engineers. Two members of the Allen County Surveyor's Office attended the following virtual presentations: Preventing BMP Maintenance Mayhem: Case Study, Birmingham, Alabama; Effectiveness of BMPs in Stormwater Management; and Post-Construction BMPs: Specifying, Inspecting, and Maintaining Underground Detention and MTDs. There were PDHs available to participants of this online training.

**October 22, 2020 – Burke Webinar Series – Concrete Washout Challenges Panel Discussion (MCMs 3,4,6)**

This webinar provided meaningful discussion between industry professionals and regulatory inspectors on the challenges and potential solutions with delivering concrete and washing out the trucks on an active construction site in a manner to cause the least amount of environmental harm. It also discussed some common myths regarding acceptable and unacceptable best management practices. Matt Jarrett, MS4 Coordinator for Allen County attended this webinar.

**BMP 5 – Storm Drain Castings**

- Include the message "Dump No Waste, Drains to River" (or similar message) on all new installed cast iron inlets and beehives
- Track the number and location of all marked inlets

Progress –

The ACPWQ advertises the storm drain marking program at events and on the Partnership website as a means for the community to get involved in cleaning up the area storm conveyance systems and preventing pollution from entering these systems. Brochures are available from the Partnership that provide details on the storm drain marking program. The Allen County Surveyor's Office produced several documents/forms to provide information and to aid in the volunteer storm drain marking program. Examples of forms created for this program include a storm drain marking Application Form, a Liability Waiver Form, a Storm Drain Marking Guide, a Storm Drain Marking Flyer, and Storm Marker Installation Instructions. The locations of all inlets and manholes are available on GIS and GIS maps are provided to volunteers to aid in storm drain marking.

The Allen County Surveyor's Office requires all new manhole and inlet castings for new construction be installed with a pre-stamped message of "Dump No Waste, Drains to River" (or similar message) to help educate residents that the storm inlets drain to a stream or river. This requirement is found within the Allen County Technical Standards Manual. During storm conveyance system GPS mapping, the Surveyor's Office logs whether the inlet/manhole is marked with a water quality message and whether the message is pre-stamped on the casting or whether it is marked with a Surveyor's Office decal. The

Surveyor's Office internal staff has marked storm drains with decals as a means of providing public awareness. The Surveyor's Office Storm Drain Marking program consists of using adhesive to apply plastic circular markers with the message "No Dumping, Drains to Stream." The Surveyor's Office also has a rectangular marker that is more flexible than the standard markers with holes punched into the sides to apply these markers on yard beehive type inlets. These markers are attached with a zip tie wrapped around the inlet rib and through the holes punched in the marker. This is a custom-made marker. There have been a total of 1421 inlets and manholes that have been marked with water quality decals.

**BMP 6 – Report-A-Polluter Program** = Establish a Report-A-Polluter Program.

Allen County has adopted a Report-A-Polluter form and has placed it on the Allen County Website to enable residents to report any illicit discharges discovered. Additionally, phone numbers are listed on the website for residents to call the Surveyor's Office with complaints of Illicit Discharges. Brochures that are distributed at fairs and community events have phone numbers to call to report illicit discharges. The Allen County Partnership for Water Quality also has a phone number listed on the Partnership website to call the Water Quality Educator to report pollution activities. See Complaints listing above for further information on the illicit discharge complaints received.

**BMP 7 – Allen County Department of Environmental Management (formerly Solid Waste Management District) Promotions** = see item 17(a) above

**b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.**

Implementation problems or challenges include having staff availability to do screening of outfalls and to walk ditches during times of the year when foliage is off, and the weather is not harsh. These times of the year make it easier to locate outfalls in the weeds and brush. Otherwise, tremendous amounts of time can be spent trying to locate or relocate outfalls.

Obtaining funding for testing equipment and dedicated IDDE staff/inspectors is also a constant challenge to overcome. Currently, staffing resources are very limited in being able to find time to do the necessary screening of outfalls. Constant construction and development taking place within the MS4 area means continued mapping of the storm sewer system of these newly developed areas must take place continually. Again, staffing resources are limited in being able to find time to do GPS mapping on the new development sites.

Additionally, another challenge encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, there was a period of time (March – May) where office employees were required to stay home. Because there was no employee availability during this time, implementation of mapping of new construction sites and screening of outfalls did not occur. Furthermore, a couple of employees that typically help with GPS mapping of new construction sites and screening of outfalls were off in late 2020 due to contracting COVID.

**c) Identify changes made to the IDDE Plan during this reporting period if applicable.**

The Allen County Surveyor's Office Illicit Discharge Detection and Elimination Plan is reviewed annually to update and review what program plan elements are working and where improvements may be

needed. The county's illicit discharge detection and elimination strategies are adjusted to reflect knowledge gained from field screenings, citizen complaints, and other monitoring information. Priority watershed areas for future dry weather screening activities are modified based upon past complaints and screening results. Educational efforts through the Surveyor's Office and the Allen County Partnership for Water Quality concerning illicit discharges are also tailored based upon past screening efforts and complaints.

Updates to the type of information that is gathered through GPS mapping and within the GIS system are made as needed. For instance, in addition to mapping the stormwater pipe conveyance systems, outfalls, and the locations of post construction best management practices, the county has begun mapping such things as repair points, sinkholes, filter strips, taps, obstructions, beaver dams, bank slides/washouts, debrushing areas, sandbars, and debris/log jam areas as time allows. The county is trying to obtain a clearer picture of regulated drain areas and conveyance systems that are in need of maintenance and reconstruction and areas where there may be ditch embankment erosion. Pictures of each of these things can be taken and attached to the point for view in GIS. These areas may be contributing sediment to the storm conveyance system which in turn is an illicit discharge of sediment. The IDDE plan has been updated to reflect this change in mapping and collection protocol.

Water testing parameters are reviewed to determine if the correct parameters are being looked at and if additional parameters may need to be tested to aid in the detection process. The listing for Active Industrial Facilities within the MS4 area is updated annually and the gas station listing is also updated annually. The last section of the IDDE Plan discusses future goals for the county's IDDE program. As these goals are completed, modifications to the county's future IDDE goals will be made within this section.

**d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.**

No revisions to the IDDE Ordinance were made during this reporting period. However, Allen County's Illicit Discharge Ordinance is currently being reviewed by the Surveyor's Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made. All changes to the Ordinance must be approved by the Commissioners. The Allen County Technical Standards Manual is also being reviewed by the above-mentioned parties to make necessary updates and revisions.

**e) Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a timetable for completion.**

With the use of Trimble GPS units with sub-meter accuracy and the use of a hand held Leica GPS/GIS data collector with one inch accuracy, the Surveyor's Office has mapped the stormwater conveyance systems and pipe systems within the county's MS4 area. Our office has input this mapping data into our GIS system which has allowed us to develop a storm sewer system map that identifies the locations of all outfalls, pipe systems, and conveyances under the MS4 operator's control.

During our field mapping, we GPS located all inlets, manholes, pipe, trash racks, outfalls, and control structures such as grade beams. The Surveyor's Office also maps locations of post construction best

management practices such as water quality separator units and maps repair point locations for areas where repair of the conveyance system is needed. As mentioned previously, the county has begun mapping such things as sinkholes, filter strips, taps, obstructions, beaver dams, bank slides/washouts, debrushing areas, sandbars, and debris/log jam areas as time allows. Currently, we have mapped outfalls with a pipe diameter of four inches or larger and open ditches with a two foot or larger bottom width. Open ditch systems and county regulated tile have also been identified and are shown on the county's GIS system.

Pictures of each outfall illustrating the size, material, and discharge of the outfall were taken and logged in a database and linked to each outfall location. When viewing each outfall mapped digitally within GIS, it is possible to click on an outfall within the GIS map and bring up a picture of that particular outfall. Outfalls that are not readily visible or are submerged in water such as in a detention pond have a picture taken of where the outfall is believed to be. A comment is also provided in the Comments data listing that describes that the outfall is submerged and not visible.

Even though older existing areas have been GPS mapped, we still continue to do GPS mapping of storm conveyance systems on an on-going basis for new construction projects occurring within our MS4 area. New construction projects are logged into a spreadsheet to keep track of areas that require mapping and inspection of BMPs and once the project is completed, the Surveyor's Office GPS maps the system and inputs it into GIS.

The Allen County Surveyor's Office has done field screening for all the outfalls within the MS4 area. Currently, every outfall that is GPS mapped is also dry weather screened for illicit discharges during GPS mapping as the county has a specific question addressing this within the GPS meters. Currently, there have been about 2,399 outfalls screened for illicit discharges. These include outfalls that discharge to detention ponds and swales. The county has around 873 outfalls that discharge to streams, rivers, or roadside ditches and an additional 1526 that discharge to detention ponds or other storm management facilities.

Outfalls documented as having potential illicit discharges and their locations are logged into a spreadsheet for future water testing to determine if an illicit discharge is present. Currently, the county has test equipment to test for conductivity, pH, total chlorine, free chlorine, total hardness, total alkalinity, ammonia-nitrogen, temperature, phosphorus/orthophosphate, total dissolved solids, and detergent. Test results are recorded within the Allen County Surveyor's Office Water Sample Testing Results Form, which is then linked to the outfall within GIS.

The Towns of Leo-Cedarville and Hometown do their own outfall screening for illicit discharges for their municipally owned pipe systems and outfalls. Both towns also provide outfall stabilization remediation where increased scour protection is needed. Furthermore, both towns also respond to illicit discharge complaints submitted to the town and investigate and require corrective actions for illicit discharges detected.

Within the MS4 area, Allen County will perform additional dry weather screening applications in the priority subwatersheds based off of the Desktop Assessment of Illicit Discharge Potential and information gathered from prior screenings and complaints. Allen County will look to expand dry weather screening applications to areas outside of the county's MS4 area in tandem with GIS mapping of these areas.

**f) Other:**

The Allen County Surveyor's Office requires new gas station facilities to implement Best Management Practices to capture their potential pollutants. Post Construction BMPs that are required for plan approval for new gas station facilities include the following:

- A hydrodynamic separator unit that is capable of removing oils and hydrocarbons
- A Maintenance Agreement must be signed and recorded by the owner or representative.
- An Operations and Maintenance Manual that provides maintenance procedures for the BMPs that serves as a guide for the property owner.

Allen County keeps a listing of all Gas Station locations within the MS4 area along with a description of the BMP that is utilized for that Gas Station if it was recently constructed or retrofitted. Gas station locations within Allen County's MS4 area can also be seen on GIS.

The Surveyor's Office also regulates horse and buggy hitching posts as these are deemed as potentially high pollutant generators. BMP's that are required for plan approval that address horse and buggy hitching posts include the following:

- Post Construction Best Management Practices must be incorporated that contain the horse manure and urine on the site and allow for maintenance to remove the build-up of these materials or to treat these waste products before they leave the site.
- A Maintenance Agreement must be signed and recorded by the owner or representative with a recorded copy provided to the Allen County Surveyor's Office.
- An Operations and Maintenance Manual must be established and provided to the owner that provides maintenance procedures for the Best Management Practices installed.

Facility Locations

Active industrial facilities, Rule 6 permit holders, and gas station facilities within the county's MS4 area and outside of the MS4 area have also been located and identified on the county GIS system to aid in illicit discharge detection and elimination. The county also has the location of confined animal feeding operations on GIS. The county maintains a spreadsheet listing of these facilities by address and this listing is updated annually.

Additional Water Testing Performed -

Since 1996, the St. Joseph River Watershed Initiative has been monitoring the quality of the water in the St. Joseph River and its tributaries through weekly grab sampling at locations across the watershed during the recreational season, April through October. This river runs through the northeast part of the county. Water sampling measurements are done in the field with a Hydrolab sonde. The Initiative measures water temperature, dissolved oxygen (DO), conductivity, pH, and turbidity. The air temperature and cloud cover are also recorded. The Initiative does not measure stream flow but does take a measurement of the water level from the bridge at each site, which gives a general idea of stream depth above or below the average at each site.

In addition to field measurements, samples are collected from each site and taken to the certified laboratory of the Fort Wayne Three Rivers Water Filtration Plant, where they are analyzed for the pesticide atrazine and for E.coli bacteria. Samples are also delivered to the EPA-certified laboratory of the Fort Wayne Wastewater Treatment Plant, where they are analyzed for total phosphorus. A nitrate analysis is also carried out by A&L Laboratories in Fort Wayne.

An electronic database of the water quality monitoring results is maintained by the Initiative in cooperation with the Environmental Resources Center at Purdue-Fort Wayne and with Fort Wayne City Utilities. The database dates back to 1996 when the Initiative began their river water quality monitoring program. Information from the database is available to the public via the Initiatives' website. Annual water quality reports for the St. Joseph River watershed, based on the Initiative's water quality monitoring information, are available in PDF format.

### Wellhead Protection Programs

A wellhead protection area is located north of the Leo-Cedarville MS4 area and serves the Honeysuckle and Tullymore subdivisions. The City of Fort Wayne developed a Wellhead Protection Plan to help protect groundwater quality in this area. The City of Fort Wayne maintains this 3,000-foot radius wellhead protection area and has a plant to supply water via two wells and a treatment facility to supply treated well water to 25 homes. They are required to do education, are responsible for implementing best management practices to protect the wells, and have a pollution prevention plan for this wellhead protection area. The City held a public meeting of the Local Planning Team on August 7, 2019 with an open house that followed that allowed residents to learn more about the wellhead protection plan. The City also distributed educational information regarding household hazardous waste and pollution prevention information to the residents. The City is required to test the water at this site and make sure it meets filtration plant standards.

The Town of Huntertown has a wellhead protection area on the south end of town. The Town of Huntertown developed a Wellhead Protection Plan to fulfill the State of Indiana's Wellhead Protection Rule.

### **20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C and then respond to the following:**

- a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.**

**BMP 1 – Rule 5 Compliance** = Comply with Rule 5 on each MS4 owned and operated project that disturbs land equal to 1 acre or larger in size.

Progress –

All County owned and operated projects that require Rule 5 review are submitted to the Allen County Soil and Water Conservation District or directly to IDEM for review approval and inspection.

Additionally, the Surveyor's Office may require a Rule 5 quality control erosion and sediment control review for county owned and operated projects that disturb land equal to 1 acre or larger in size. Quality control inspections are also performed on county owned projects for erosion and sediment control.

Surveyor's Office projects have an inspector on site every day to monitor the site to verify it conforms to our plans and specifications. The county reviews the construction site stormwater runoff program annually to determine if program changes or changes in requirements may be necessary to improve the program. For example, quality control plan review requirements are modified based on the results of inspections on sites in the field.

**BMP 2 – Stormwater Management Ordinance** = Review the active construction and post-construction site language contained in the Stormwater Management Ordinance for needed updates and to ensure compliance with current Rule 13 language. Enforce the Stormwater Management Ordinance.

Progress –

The Allen County Stormwater Management Ordinance was passed by the Board of Commissioners of Allen County on April 25<sup>th</sup> of 2008. This ordinance includes the requirements for the Erosion and Sediment Control Construction Site Minimum Control Measure as specified by Rule 13.

No changes to the Stormwater Management Ordinance occurred during this reporting period. However, Allen County's Stormwater Management Ordinance is currently being reviewed by the Surveyor's Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made. All changes to the Ordinance will be approved by the Commissioners.

The Stormwater Management Ordinance is enforced by the Allen County Surveyor's Office. The statutory authority of the Ordinance is referenced in all letters of violation to offenders and provides the authority to issue enforcement actions as necessary.

**BMP 3 – Stormwater Technical Standards**

- Review the active construction and post-construction site language contained in the County Stormwater Technical Standards
- Review and approve proposed new and redevelopment projects for compliance with the Stormwater Technical Standards
- Enforce the Allen County Technical Standards Manual

Progress -

No changes to the Allen County Technical Standards Manual occurred during this reporting period. However, Allen County's Technical Standards Manual is currently being reviewed by the Surveyor's Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made.

When updates are made to the Technical Standards Manual, an email is sent to area developers, engineers, and contractors to alert them of important changes. Additionally, all projects are reviewed to make sure they are in compliance with the Allen County Technical Standards Manual, which provides the detailed requirements for erosion and sediment control and pollution prevention measures along with stormwater management requirements. The statutory authority of the Technical Standards is referenced at times in construction site review comments and letters of violation to offenders.

**BMP 4 – Plan Review, Site Inspection, and Enforcement**



- Review and approve proposed new and redevelopment projects
- Review 100% of construction plans and inspect prioritized sites for compliance

Progress -

Plan reviews for erosion and sediment control are performed by the MS4 Coordinator for every project meeting the Ordinance requirements. Stormwater quantity reviews are also performed by the Surveyor's Office Engineering staff for each project meeting the Ordinance requirements. The Surveyor's Office goes above and beyond the Rule 5 requirements and requires all non-residential construction sites with proposed land disturbances greater than 10,000 square feet to submit a stormwater management plan (encompassing an erosion and sediment control plan and stormwater drainage plan) for review and approval. Subdivisions and individual residential lot construction sites meeting the Ordinance requirements are also reviewed for erosion and sediment control compliance.

Erosion and sediment control inspections are performed on a regular basis for each active construction site project. Construction site inspections are prioritized in accordance with the County's Construction Site Inspection Prioritization document. During this reporting period, construction site inspections were performed by the MS4 Coordinator with the help of the Surveyor's office trained office inspector that is utilized as time allows in his schedule to do site erosion control inspections and complaint investigations.

**BMP 5 – Staff Training** = Provide annual training to all staff responsible for plan review, site inspection, and enforcement related to construction and post-construction requirements.

Progress –

There were many training sessions attended by Surveyor's office staff during this reporting period. See listing in item (e) below.

**BMP 6 – Operation & Maintenance (O&M) Manuals** = Require O&M Manuals be submitted for all post-construction BMPs identified as part of a project submittal package.

Progress –

The Allen County Surveyor's Office requires an Operations and Maintenance Manual be provided for all project sites where post construction best management practices are required. Per the Allen County Stormwater Management Ordinance, post construction BMPs are required for non-residential sites with total land disturbance of one acre or more, and residential sites of five acres or more. The requirement for the submittal of an Operations and Maintenance Manual can be found in the Allen County Technical Standards Manual. The Operations and Maintenance Manual must include maintenance guidelines and a timeline or schedule for when maintenance inspections must occur for the post construction amenities, contact information for the person or entity responsible for maintenance of the post construction BMPs, a statement that the owner is responsible for all costs associated with maintaining the post construction BMPs, a right-of-entry statement allowing county personnel to inspect and maintain the BMPs if necessary, and a site locational map showing the location of the post construction BMPs.

**BMP 7 - Erosion and Sediment Control and Post-Construction BMP Tracking Database**

- Track the status of construction projects, erosion and sediment control activities, and post-construction BMPs in Accella
- Track violations, complaints, and public information requests

Progress –

The Surveyor's Office uses Microsoft Access, Microsoft Excel, and Accela to provide tracking of the status of projects, inspections, enforcement actions, and complaints concerning erosion and sediment control. Accela software is utilized county-wide as a permitting tool to track the status of projects. The public can log into this software to view statuses and view review comments/deficiencies for any plan submittal. Since the system is county-wide, any office can look at a project to see which department is holding up a project and what plan issues they are waiting to get resolved before issuing an approval. The software system requires all departments to approve the project before an ILP or Certificate of Occupancy is issued.

Additionally, the Surveyor's Office logs every paper, plan, application, document, etc. that comes into the office. The Surveyor's Office can then print specific reports utilizing the data logged. The review and approval status of construction projects is also logged in a spreadsheet by the Surveyor's Office Administrative Assistant. Erosion and Sediment Control inspection reports for sites under construction are logged in a file for future reference and can also be logged into the Accela software and stored with that project. Post Construction BMPs and their inspection timetables are logged in a database file by the Administrative Assistant and are also filed in the project site plan review file. Post Construction BMPs can also be logged into Accela for each project for future reference.

All complaints and violations submitted to the Allen County Surveyor's Office are logged in a Microsoft Access Database by the Surveyor's Office Administrative Assistant. The Allen County Surveyor's Office established a Complaint Flow Process document that outlines step-by-step office procedures to handle complaints received by the office. Queries can be performed to isolate all erosion and sediment control complaints from other complaints. The Surveyor's Office can also search for a particular address in the historical records to determine whether past violations were found at a particular site. The standard office complaint form is also typed up that provides the location, caller phone number and address information, date, a description of the complaint, and who the complaint is assigned to. Once the investigation is complete and the complaint is resolved, the investigative results are also input into the form along with when the complaint is closed out. These complaint forms are logged in a filing cabinet for future reference. Notices of Violation and enforcement actions are also logged in the Microsoft Access database and in a separate binder.

#### **BMP 8 - Procedure for Prioritizing Program Activities**

- Inspect 100% of all active construction sites
- Re-inspect and follow-up on prioritized sites having identified problem areas and/or concerns

Progress –

Erosion and sediment control inspections are performed on a regular basis for each active construction site project. Construction site inspections are prioritized in accordance with the County's Construction Site Inspection Prioritization document. This document provides the Allen County Erosion and Sediment Control Inspectors with a priority listing of sites with characteristics that will require the site to be inspected sooner or more often than other construction sites. Sites are prioritized based on characteristics such as size, sensitive areas or slopes, past history of issues, past complaints, last inspection date, development stage of project, etc.

An inspection checklist form is completed for every site where an erosion and sediment control inspection takes place. All inspection forms are filed for future reference. The inspection results along

with any noted deficiencies are sent immediately to the project site owner and contractor to be corrected by the date specified in the report. Follow-up inspections are performed to determine if the site deficiencies are corrected. A follow-up inspection report is completed and sent to the property owner and contractor. Follow-up inspections are continued until the site deficiencies are corrected. If deficiencies persist the county could issue fines or a stop work order. Copies of all follow-up inspection reports are also filed for future reference.

**b) Describe program implementation partnerships and explain successes and barriers during this reporting period.**

The Allen County Surveyor's Office utilizes the Allen County Partnership for Water Quality to help organize and advertise Construction Site and Post Construction BMP Training workshops for construction professionals and staff. Some of the watershed groups that attend the Partnership for Water Quality meetings have an interest in helping with the organization of implementing the training workshops. The Water Resources Education Specialist also has contacts with the local media outlets to help advertise the workshop. The City of Fort Wayne and the Surveyor's Office often help advertise each other's training workshops to increase our attendance at these events and the two entities work together on projects that cross-jurisdictional boundaries within the confines of the site.

The Allen County Surveyor's Office and the Allen County Partnership for Water Quality also work with local watershed groups and other environmental groups to promote their goals and activities. Some of the goals of the local watershed groups include the promotion of cost-share-program best management practices such as buffer zones, riparian corridors, two-stage ditches, and filter strips to name a few. These practices fit well with the post construction BMP practices required for construction projects to remove 80% total suspended solids.

Barriers for this MCM include limited funding from both the Partnership for Water Quality and the Surveyor's Office to greatly expand the activities of this MCM and the post construction MCM. The Surveyor's Office would like to be able to do erosion and sediment control inspections and long-term post construction BMP inspections on construction sites more often but with limited employee resources, this is a barrier that prevents the office from visiting sites as often as desired. Another barrier pertaining to this MCM is the ability to get individual homebuilders and their contractors building a new home to consistently comply with erosion and sediment control requirements and keep mud off of the streets. Additional efforts at educating these construction professionals will need to be looked at.

Another barrier is working with other departments to implement regulations that promote LID and other green practices. It can be difficult to get engineers and developers on board with implementing LID designs and green practices for new development projects, since this is a change in the way they have designed projects in the past.

Lastly, another challenge encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, there was a period of time (March – May) where office employees were required to stay home. Because there was no employee availability during this time, construction site inspections and implementation of mapping of new construction sites did not occur. Furthermore, a couple of employees that typically help with GPS mapping of new construction sites and erosion control inspections were off in late 2020 due to contracting COVID.

**c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.**

During the reporting period 2019 through 2020, the number of construction sites permitted during this period and the number and type of enforcement actions taken against construction site operators were as follows:

2019: 65 sites permitted, 18 Inspection Corrective Action Reports sent, no Notice of Violations issued, and 1 Stop Work Order was issued.

2020: 67 sites permitted, 27 Inspection Corrective Action Reports sent, 1 Notice of Violation issued, and 1 Stop Work Order issued.

As far as enforcement actions during the reporting period, a Notice of Violation letter was issued to a violator that placed concrete washout materials on the roadway in which the letter provided a date in which a fine would be issued if site deficiencies were not corrected. There were two stop work orders issued during the reporting period. One involved a developer de-watering the detention basin and pumping sediment-laden flows to a stream and the other involved site grading work starting on a construction site prior to SWPPP approvals being granted. The owner of each immediately corrected the site issue to be able to commence work again. See item 16 (h) above.

All other construction site deficiencies were addressed with the issuance of an inspection corrective action report providing a listing of the site issues discovered or by calling or meeting with the contractor to discuss the report and at times meeting the contractor on site to explain where the deficiencies were located and providing suggestions on how to correct the issue.

**d) Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.**

There were several training opportunities that were provided to contractors, developers, and builders during this reporting period. This fulfilled our measurable goal of providing a local construction and development community education program. The trainings are as follows:

**January 15, 2019 – Inlet Protection & Pollution Prevention Lunch and Learn (Training for MCMs 3,4,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Inlet Protection & Pollution Prevention provided by EJ Prescott, Incorporated. The presentation provided information on drop inlet protection insert products, secondary containment products, berming products, dewatering bags, spill kits, and portable concrete washout containers made by ENPAC LLC. There were 3 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**February 7, 2019 – Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, In Lieu Fee Program Updates, IDEM Wetlands Coordination, Industrial Outreach for MS4s, and a Site Inspection Stormwater Clinic to name a few. There were four people from the Allen County Surveyor's Office that attended and 5 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 12, 2019 – Sediment Control & Stormwater Management Lunch and Learn (MCMs 3,4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Sediment Control & Stormwater Management provided by EJ Prescott, Incorporated. The lunch and learn discussed various sediment control measures and stormwater management best management practices on construction sites. There were 3 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**February 28, 2019 – Indiana Best Available Floodplain Mapping Webinar (MCMs 4,5)**

The IDNR Division of Water hosted a webinar to discuss the Indiana Best Available Floodplain Mapping project and how the data should be used. The announcement was provided to area engineers and contractors. There were 5 people from the Allen County Surveyor's Office that attended this training webinar.

**March 6, 2019 – Purdue Road School (MCMs 4,5)**

This conference event had multiple technical sessions on a variety of roadway construction topics, including some sessions that discussed water quality related topics such sediment control/rolled filtration devices and wetland permitting. There were five people from the Allen County Surveyor's Office that attended for one day and six people from Allen County Highway Department that attended for two days.

**March 26, 2019 – Innovations in Manhole Design and Installation Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Manhole Design & Installation provided by EJ Prescott, Incorporated. There were 4 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**October 3, 2019 – Construction Site Stormwater Management Workshop (MCMs 3-6)**

The City of Fort Wayne hosted a daylong water quality workshop for engineers, contractors, developers, and municipal employees where presentations were provided on Polymers, Stormwater Management and Contractors, Parkview Field Stormwater, Drone Technology, House Bill 1266 Permit Revisions, Case Studies from AEP's Stormwater Management Programs, and Indiana Statutes and Rules Applicable to the Practice of Engineering. There were PDHs available to participants at this workshop. There were about 50-70 people at this workshop including the Allen County MS4 Coordinator.

**December 3, 2019 – Innovations in Stormwater Infiltration & Storage Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Stormwater Infiltration & Storage provided by EJ Prescott, Incorporated. The lunch and learn discussed various infiltration best management practices for new construction sites. There were 4 people from the Surveyor's Office that attended with about 18 people total in attendance, including contractors and engineers.

**January 14, 2020 – The Evolution of Turf Reinforcement Mat Technology (MCMs 4-6)**

The Surveyor's Office staff attended a one-hour lunch and learn on new turf mat technology provided by EJ Prescott, Incorporated. The webinar focused on a new form of plastic matting that has plastic grass and allows real grass to grow through the cloth/wire mesh base and amongst the plastic grass. There were 6 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**February 6, 2020 - Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, discussed IDEM's Electronic Regulatory Portal for Construction Sites, had a presentation on Gross Solids Removal to Improve Water Quality, and a Site Inspection Stormwater Clinic to name a few. There were five people from the Allen County Surveyor's Office that attended and 2 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors, developers, engineers, and municipal employees.

**June 5, 2020 – Innovations in Total Stormwater Management Webinar (MCMs 4-6)**

Surveyor's Office staff attended this one-hour lunch and learn webinar that focused on separator units, wetland bioretention cells, and underground detention products. The webinar was provided by EJ Prescott, Incorporated. There were 2 people from the Surveyor's Office that attended this webinar along with various contractors and engineers.

**June 26, 2020 – Stormwater Drainage & Storage Toolbox Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on underground stormwater storage units. The units allow water to infiltrate out into the soil to convey water into the ground. The unit is great for under hard surfaces and around tree planters since the water is conveyed to the trees. The webinar was provided by EJ Prescott, Incorporated. There were various contractors and engineers that took part in this webinar.

**July 10, 2020 – Revegetation: Building the Best Possible Soils Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on revegetation best management practices. The webinar was provided by EJ Prescott, Incorporated. There were various contractors and engineers that took part in this webinar.

- e) **MS4 personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.**

The following are staff training opportunities for the construction and post construction minimum control measures along with general training opportunities regarding stormwater quality.

**January 15, 2019 – Inlet Protection & Pollution Prevention Lunch and Learn (Training for MCMs 3,4,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Inlet Protection & Pollution Prevention provided by EJ Prescott, Incorporated. The presentation provided information on drop inlet protection insert products, secondary containment products, berming products, dewatering bags, spill kits, and portable concrete washout containers made by ENPAC LLC. There were 3 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**January 31, 2019 – St. Marys River Stream Assessment Study Results Presentation (Training for MCMs 1-6)**

A presentation was provided on the results of the St. Marys River Stream Assessment Study that was completed by Siavash Beik of Burke Engineering and Robert Barr of IUPUI. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality. There were about 25 people in attendance.

**February 2, 2019 – World Wetlands Day (MCMs 1,2)**

This daylong event was dedicated to educating the public on the importance of keeping our waterways clean and to teach the importance of urban wetlands such as the Deetz Nature Preserve, where walking trail tours within this Preserve were also provided as part of this event. The ACPWQ was asked to help educate youth about the importance of water quality and conservation at this event.

**February 7, 2019 – Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, In Lieu Fee Program Updates, IDEM Wetlands Coordination, Industrial Outreach for MS4s, and a Site Inspection Stormwater Clinic to name a few. There were four people from the Allen County Surveyor's Office that attended and 6 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

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The IDNR Division of Water hosted a webinar to discuss the Indiana Best Available Floodplain Mapping project and how the data should be used. The announcement was provided to area engineers and contractors. There were 5 people from the Allen County Surveyor's Office that attended this training webinar.

**March 6, 2019 – Purdue Road School (MCMs 4,5)**

This conference event had multiple technical sessions on a variety of roadway construction topics, including some sessions that discussed water quality related topics such sediment control/rolled filtration devices and wetland permitting. There were five people from the Allen County Surveyor's

Office that attended for one day and six people from Allen County Highway Department that attended for two days.

**March 26, 2019 – Innovations in Manhole Design and Installation Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Manhole Design & Installation provided by EJ Prescott, Incorporated. There were 4 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**April 30, 2019 – Illicit Discharge Detection and Elimination Webinar (MCM 3)**

This one-hour webinar identified and provided examples of commonly encountered illicit discharges, discussed various methods and means available to assist with the elimination of illicit discharges, provided guidance for IDDE program compliance documentation, and discussed a field guide for MS4 personnel. Matt Jarrett (Allen County MS4 Coordinator) from the Surveyor's Office attended this webinar.

**May 14, 2019 - Indiana MS4 Partnership Annual Meeting (MCMs 1-6)**

The Allen County Surveyor's Office attended the IDEM annual MS4 meeting to be trained on information concerning the regulatory requirements of the MS4 programs. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality.

**August 6, 2019 – Day at the Lake (MCMs 1-6)**

This was a field trip open to the public where residents could take a bus trip to Lake Erie and take a tour of an open lab on the lake to see demonstrations of water quality tests performed by Ohio State University faculty on the lake waters. Presentations on water quality topics were also provided by Ohio State faculty. There were 4 people from the Allen County Surveyor's Office that went on this trip and there were about 50 residents that went on this day long bus trip.

**September 4-6, 2019 - INAFSM Annual Conference (MCMs 1-6)**

Matt Jarrett, MS4 Coordinator for Allen County, and Jackie Buck, educator for the Allen County Partnership for Water Quality attended the INAFSM conference in Fort Wayne in its entirety. This conference had many presentations on varying water quality and stormwater topics.

**September 17, 2019 – Back to Life: Successful Stream and Wetland Restoration Webinar (MCMs 4-6)**

This webinar provided by Davey Resource Group provided information to help MS4s understand the process of successful stream and wetland restoration processes. Matt Jarrett from the Surveyor's Office attended this webinar.

**October 3, 2019 – Construction Site Stormwater Management Workshop (MCMs 3-6)**

The City of Fort Wayne hosted a daylong water quality workshop for engineers, contractors, developers, and municipal employees where presentations were provided on Polymers, Stormwater Management and Contractors, Parkview Field Stormwater, Drone Technology, House Bill 1266 Permit Revisions, Case Studies from AEP's Stormwater Management Programs, and Indiana Statutes and Rules Applicable to the Practice of Engineering. There were PDHs available to participants at this workshop. There were about 50-70 people at this workshop including the Allen County MS4 Coordinator.

**November 19-21, 2019 – Migrating from ArcMap to ArcGIS Pro (MCMs 3,5)**



This workshop provided training for migrating from GIS ArcMap to ArcGIS Pro, which is used to map pipe systems, storm structures, outfalls, and post construction BMPs. There were 6 people from the Surveyor's Office that attended.

**December 3, 2019 – Innovations in Stormwater Infiltration & Storage Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Stormwater Infiltration & Storage provided by EJ Prescott, Incorporated. The lunch and learn discussed various infiltration best management practices for new construction sites. There were 4 people from the Surveyor's Office that attended with about 18 people total in attendance, including contractors and engineers.

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**January 15, 2020 – Stormwater Management: Understanding Compliance and Green Infrastructure Practices (MCMs 4-6)**

This webinar provided by Davey Resource Group covered the basics of stormwater regulatory requirements before and during construction as well as the required post-construction best management practices (BMPs). BMP examples, such as biofiltration systems which promote absorption of stormwater runoff and the elimination of pollutants were reviewed. Matt Jarrett from the Surveyor's Office attended this webinar.

**February 6, 2020 - Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, discussed IDEM's Electronic Regulatory Portal for Construction Sites, had a presentation on Gross Solids Removal to Improve Water Quality, and a Site Inspection Stormwater Clinic to name a few. There were five people from the Allen County Surveyor's Office that attended and 2 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors,

developers, engineers, and municipal employees including the Allen County Highway Department and Surveyor's Office.

**March 3, 2020 – Extending Pavement Life with Geosynthetic Interlayers (MCMs 4-6)**

Two people from the Allen County Surveyor's Office attended this seminar provided by Huesker that discussed geosynthetic interlayers with regard to pavement.

**March 4, 2020 – Identifying Wetlands for Project Planning and Plan Review Webinar (MCMs 4-6)**

This webinar provided by Wessler Engineering provided information to help MS4s understand the process of identifying wetlands, avoiding impacts during maintenance activities, and permitting wetland impacts for public projects. It also provided information to help MS4s identify potential wetlands during Rule 5 and drainage plan reviews. There were 3 people from the Surveyor's Office staff that attended this webinar.

**June 5, 2020 – Innovations in Total Stormwater Management Webinar (MCMs 4-6)**

Surveyor's Office staff attended this one-hour lunch and learn webinar that focused on separator units, wetland bioretention cells, and underground detention products. The webinar was provided by EJ Prescott, Incorporated. There were 2 people from the Surveyor's Office that attended this webinar.

**June 26, 2020 – Stormwater Drainage & Storage Toolbox Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on underground stormwater storage units. The units allow water to infiltrate out into the soil to convey water into the ground. The unit is great for under hard surfaces and around tree planters since the water is conveyed to the trees. The webinar was provided by EJ Prescott, Incorporated.

**July 10, 2020 – Revegetation: Building the Best Possible Soils Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on revegetation best management practices. The webinar was provided by EJ Prescott, Incorporated.

**August 12, 2020 – Avoiding the Emergency Room: Sewer System Health and Preventative Care Webinar (MCMs 5,6)**

This Wessler Engineering webinar discussed how a structured plan for preventative care can help your sewer system, described the steps of forming an asset management plan for your sewer system, and discussed how the health and longevity of the sewer system can reduce long-term costs. There were 2 people from the Surveyor's Office that attended this webinar.

**August 18, 2020 – Concrete Pipe Virtual Tour (MCMs 4-6)**

Two people from the Allen County Surveyor's Office attended this virtual webinar that discussed concrete pipe and provided a virtual tour of two facilities that manufacture this type of pipe.

**September 16-18, 2020 – INAFSM Annual Conference (Virtual) (MCMs 1-6)**

This virtual conference provided presentations on varying water quality and stormwater topics that covered training on all the minimum control measures. Many of the presentations discussed the new IDEM construction and MS4 general draft permits that are scheduled for ratification in 2021. Matt Jarrett, MS4 Coordinator for Allen County attended 10 virtual sessions and the Surveyor's Office stormwater quantity plan reviewer attended most all of the virtual sessions. Allen County's part-time MS4 educator also attended the MS4 sessions.

**September 27, 2020 – World Rivers Day Ecology Tour (MCMs 1,2,3)**

Two ecology tours of the St. Joseph River in Fort Wayne were offered on a pontoon going up and down the river. During the tour, the organizer offered educational information to the participants regarding the ecology and water quality along the river. Matt Jarrett, MS4 Coordinator for Allen County participated in the second tour.

**October 13 & 20, 2020 – Fort Wayne City Utilities Virtual Training Sessions (MCMs 3-6)**

During the month of October, the City of Fort Wayne hosted weekly online training sessions for Stormwater and Water Quality Professionals and Engineers. Two members of the Allen County Surveyor’s Office attended the following virtual presentations: Preventing BMP Maintenance Mayhem: Case Study, Birmingham, Alabama; Effectiveness of BMPs in Stormwater Management; and Post-Construction BMPs: Specifying, Inspecting, and Maintaining Underground Detention and MTDs. There were PDHs available to participants of this online training.

**October 22, 2020 – Burke Webinar Series – Concrete Washout Challenges Panel Discussion (MCMs 3,4,6)**

This webinar provided meaningful discussion between industry professionals and regulatory inspectors on the challenges and potential solutions with delivering concrete and washing out the trucks on an active construction site in a manner to cause the least amount of environmental harm. It also discussed some common myths regarding acceptable and unacceptable best management practices. Matt Jarrett, MS4 Coordinator for Allen County attended this webinar.

**December 18, 2020 – USACE Inundation Mapping Webinar (MCMs 4,5,6)**

This webinar described recent updates to USACE inundation map sharing policies making them accessible to the public, provided updates on USACE plans to make dam EAP maps publicly available within the National Inventory of Dams in late 2021, and provided a demonstration of how people can access and use USACE dam emergency action plan EAP maps once available in the National Inventory of Dams. Two people from the Allen County Surveyor’s Office attended this webinar.

**f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.**

The Allen County Stormwater Management Ordinance was passed by the Board of Commissioners of Allen County on April 25<sup>th</sup> of 2008. This ordinance includes the requirements for the Erosion and Sediment Control Construction Site Minimum Control Measure as specified by Rule 13.

No changes to the Stormwater Management Ordinance occurred during this reporting period. However, Allen County’s Stormwater Management Ordinance is currently being reviewed by the Surveyor’s Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made. All changes to the Ordinance will be approved by the Commissioners.

The Stormwater Management Ordinance is enforced by the Allen County Surveyor’s Office. The statutory authority of the Ordinance is referenced in all letters of violation to offenders and provides the authority to issue enforcement actions as necessary.

Additionally, no changes to the Allen County Technical Standards Manual occurred during this reporting period. However, Allen County's Technical Standards Manual is currently being reviewed by the Surveyor's Office and the office consultant with the goal of making necessary updates and revisions. Pertinent stakeholders such as developers, engineers, and contractors are also being given a chance to provide their input on what changes need to be made.

When updates are made to the Technical Standards Manual, an email is sent to area developers, engineers, and contractors to alert them of important changes. All projects are reviewed to make sure they are in compliance with the Allen County Technical Standards Manual. The statutory authority of the Technical Standards is referenced at times in construction site review comments and letters of violation to offenders.

**g) Other:**

The Allen County document entitled "Allen County Schedule of Fines" was established to provide a documented listing of the fine amounts for different types of stormwater pollution prevention violations. This document is currently being reviewed by the office and by the office consultant to come up with a revised fine schedule for the different types of stormwater pollution prevention violations. This fine schedule document is for construction projects. The Surveyor's Office also has a fine schedule for homebuilders and individual building lots. This fine schedule is also being reviewed for revisions. Both fine schedules will be included with the revised Stormwater Technical Standards Manual.

The Allen County Surveyor's Office strives to have all new construction plan reviews completed within 2 weeks of plan submittal. The Surveyor's Office also strives for active construction sites to implement stabilization measures before the end of the growing season during the fall months.

The Allen County Surveyor's Office has established a standard process for inspecting and issuing inspection reports and notices of violations for construction site erosion and sediment control issues. Standard forms have also been established for the construction site review process such as an Allen County Stormwater Plan Submittal Checklist, Application for Stormwater Permit, Project Site Owner Statement of Financial Responsibility, a Detention Basin/Post Construction BMP Maintenance Agreement, and Construction Site Inspection Checklist. All of these forms were reviewed and updated during this reporting period and can be found on the county website.

A standard procedure for construction site review is also outlined in the Surveyor's Office document entitled "Plan Review Process Flow." Lastly, the Surveyor's Office is requiring the applicant to submit a Proof of Publication of Notice of Intent in the local newspaper as part of the construction site plan review submittal package to encourage the proper submittal of the Notice of Intent to IDEM.

The Allen County Surveyor's Office inspects every new county regulated development throughout the county to make sure their storm pipe and emergency overflow weirs are adequately installed according to the plans that have been approved. The county also requires as-builts of the stormwater management system on all new construction projects to verify the system was constructed according to plan. The county also inspects all ditches that may have work done to make sure spraying for brush, reconstruction, and dipping of ditches are performed to the contract specifications.

**21. List the best management practices for post-construction storm water run-off control identified in your SWQMP Part C and then respond to the following:**

**a.) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.**

See item 20(a) above as the construction and post construction minimum control measure BMPs were combined for ease of presentation and discussion.

**b.) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.**

Implementation problems or challenges include having staff available to do long-term post construction BMP inspections. The number of post construction BMPs being implemented every year continues to rise as new projects are implemented. Meanwhile, the number of staff members available to do long-term post construction inspections for every post construction measure implemented since the Stormwater Ordinance was passed in 2008 continues to remain the same. These post construction measures will have to be inspected for perpetuity. As a result, the Allen County Surveyor's Office has increased its receptivity toward allowing more green friendly practices that require little maintenance as opposed to just requiring a hydrodynamic separator unit that requires someone to open manhole lids and probe down inside the unit to determine sediment depths and whether maintenance is required. Post Construction BMPs such as wet and dry basins, vegetated swales, forebays, infiltration trenches, sand filters, and constructed wetlands are easily visible and can quickly be inspected. The Surveyor's Office has worked with developers and engineers to come up with specialized designs for post construction BMPs such as those mentioned previously that are designed in a manner that meet our standards for removing 80% TSS and are cost-friendly, low maintenance measures. The Surveyor's Office realizes that as the numbers of hydrodynamic separator units and other underground BMPs implemented in the field continues to increase, it will be increasingly tougher to inspect these on a regular basis. Also, property owners are more apt to maintain basins and other visible BMPs as opposed to remembering to maintain a BMP that is underground. As a result, plan preparers continue to come up with new, innovative post construction BMP designs that are lower in cost and easier to maintain.

As a result of Homeowner's Associations ineffectiveness in maintaining underground hydrodynamic water quality separator units, the Surveyor's Office will implement a change in the Allen County Stormwater Management Ordinance that requires all water quality hydrodynamic separator units installed within a regulated, platted subdivision to be incorporated within the regulated storm pipe system and be maintained as part of the regulated drain system.

Additionally, as a result of HOA's not being made aware of the post construction best management practice maintenance requirements, the Surveyor's Office will implement a change in the Allen County Stormwater Management Ordinance that requires the approved post construction operations and maintenance manual and maintenance agreement be added as an attachment to the covenants and recorded as part of the covenants in all platted developments. A copy of the recorded covenants must be provided to the Allen County Surveyor's Office.

Lastly, another challenge encountered during this reporting period is the COVID-19 pandemic that began in early 2020. Because of the pandemic, there was a period of time (March – May) where office

employees were required to stay home. Because there was no employee availability during this time, post construction best management practice inspections and implementation of mapping of new post construction BMPs did not occur. Furthermore, a couple of employees that typically help with GPS mapping of new post construction BMPs and post construction BMP inspections were off in late 2020 due to contracting COVID.

**c.) Describe program implementation partnerships and explain successes and barriers.**

See item 20(b) above.

**d.) MS4 area personnel responsible for implementation of the post-construction minimum control measure shall receive, at a minimum, annual training. Identify training provided for this minimum control measure during this reporting period.**

See item 20(e) above.

**e.) Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.**

See item 20(f) above.

**f.) Other:**

Non-Structural BMPs

Allen County has a post construction technical standard that requires an 80% Total Suspended Solids removal rate of 110 microns or larger. New BMPs individually or in combination as a treatment train must meet this requirement. Allen County requires an Operations and Maintenance Manual be prepared for the future property owner of a site to provide guidelines on routine post construction BMP maintenance and provide a timeline for routine inspections of all post construction BMPs. Additionally, the Surveyor's Office requires the property owner to provide a signed, recorded copy of a Maintenance Agreement that states that the property owner is responsible for maintaining all Post Construction BMPs at the property owners cost and that the Surveyor's Office has the right to inspect the property to verify these BMPs are indeed being maintained. Lastly, the Allen County Surveyor's Office Technical Standards Manual requires all new manhole and inlet castings for new projects to be pre-stamped with an appropriate "clean water" message.

Structural BMPs

The county had many structural BMPs that were installed at many different private construction sites throughout the county.

In 2019 there were 38 post construction BMPs installed and in 2020 there were 75 BMPs installed. These BMPs will be maintained by the property owner or homeowner's association. Allen County has begun to GPS locate and input the Post Construction Structural BMPs for construction projects into our GIS system. The Surveyor's Office also logs all new Post Construction Structural BMPs for each site in an electronic database and maintains a schedule of inspection for these BMPs.

Typical structural post construction BMPs that were installed during this reporting period within construction sites throughout the county include wet and dry detention ponds, forebays, sediment traps, catch basins, micro-pools, hydrodynamic water quality separator units, grassed swales, filter strips, infiltration trenches, rock dam donuts, and underground detention systems.

The Surveyor's Office continues to GPS locate post construction best management practices that have been installed after the passage of the Stormwater Management Ordinance in 2008. This information is then input into the GIS system. This will be utilized to do long-term inspections of the Post Construction BMPs as it will aid in quickly locating the BMPs that need inspected.

**22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C and respond to the following:**

**a.) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.**

**BMP 1 – MS4 Conveyance System Maintenance Plan and Documentation**

- Implement a storm sewer system maintenance schedule and track activities to document the amount of pollution that has been kept out of local receiving waters as a result of the Stormwater Program.
- Document the amount of litter picked up as a result of periodic litter pickup events, the amount of materials removed from the storm sewer system and disposal methods, all improvements made to roadside shoulders and ditches, and all improvements made to stormwater outfalls.

Progress -

**Standard Operating Procedures**

Allen County and the co-permits have developed a Standard Operating Procedure (SOP) for Periodic Litter Pickup. The SOP essentially states that Allen County and co-permit staff will periodically inspect priority roadways and storm system structures for litter and debris. Areas with high amounts of litter or with common occurrences of litter will be prioritized for pickup. A tracking system is maintained that details what structures or locational areas and roadways (by name and length) were inspected for litter, the date of the litter pickup, and the amount of material collected.

Allen County and the co-permits have also developed a Standard Operating Procedure (SOP) for Periodic Storm System Structure Cleaning. This SOP essentially states that Allen County and co-permit staff will repair and clean catch basins, trash racks and other structural components of the County's MS4 conveyance system. A tracking system is maintained that details what structures were inspected, what maintenance activities were performed for each structure that was inspected and maintained, the date of inspection and maintenance, and the number of structures that were inspected or maintained.

Allen County and the co-permits have also developed a Standard Operating Procedure (SOP) for Roadside Shoulder & Ditch Stabilization. This SOP essentially states that Allen County and co-permit staff will perform roadside shoulder and ditch stabilization activities that will focus on stabilizing unvegetated and eroded portions of the MS4 conveyance system (ditches, swales, and roadside shoulders). A tracking system is maintained that details what roadways, locational areas, and ditches had roadside shoulder and ditch stabilization activities take place along with the dates of those activities.

Allen County and the co-permits have also developed a Standard Operating Procedure (SOP) for Periodic Pavement Sweeping. This SOP essentially states that Allen County and co-permit staff will perform pavement sweeping activities that will occur on roadways and municipal parking lots to remove debris and residue that has accumulated. A tracking system is maintained that details what roadways and locational areas had pavement sweeping activities take place along with the dates of those activities.

Additionally, Allen County and the co-permits have also developed a Standard Operating Procedure (SOP) for Stormwater Outfall Scouring Remediation. This SOP essentially states that Allen County and co-permit staff shall develop and prioritize locations of outfalls within the Allen County Co-permit MS4 area that will be periodically inspected for scouring. Outfalls that are found to have scouring must be remediated by adding stabilization measures such as rip rap, rock chutes, pipe outlet extensions to provide a stable outfall, or some other stabilization measure. A tracking system will be maintained that details what outfalls or conveyance systems were inspected or remediated for outfall scouring.

Lastly, Allen County and the co-permits have also developed a Standard Operating Procedure (SOP) for Roadside Vegetation Management. This SOP essentially states that Allen County and co-permit staff will perform roadside vegetation management activities that will focus on stabilizing unvegetated and disturbed portions of the MS4 conveyance system as a result of construction and drainage improvement activities or maintenance activities. A tracking system will be maintained that details what roadways and locational areas had roadside vegetation activities take place along with the dates of those activities.

For a listing of the amounts of materials collected, number of structures cleaned, number of outfalls remediated for scouring, and length of roadside shoulders, swales, and ditches that have been stabilized with vegetation, please see the attached Allen County Highway Reports and Allen County Surveyor's Office Drain Maintenance By Year Through 2020 report.

#### Further Activities

Periodic Storm Structure Cleaning/Stormwater Outfall Scouring Remediation - During GPS mapping of the storm conveyance system including all inlets and pipe, the Surveyor's Office inspects the storm conveyance system for repair needs or structure cleaning that may be needed. If cleaning or repair needs are found within the conveyance system, the office field maintenance inspector is notified of the issue and provided with a picture. The inspector then investigates the issue, and it is noted and logged. A contractor is then hired to make the necessary repair or cleaning. The county has completed inspections on the storm conveyance systems within the MS4 area along with GPS mapping of the conveyance systems. However, new construction projects continue to be GPS mapped in the field and the storm conveyance system is inspected for repair needs or structure cleaning during this mapping.

The Allen County Surveyor's Office also inspects every new county regulated development throughout the county to make sure their storm pipe systems and emergency overflow weirs are adequately installed according to the plans that have been approved. The inspector is on site every day during which pipe and inlets are installed to verify the storm system is put in correctly according to plan. As-built plans are also requested for projects as needed.

Ditch Stabilization/Vegetation Management - Allen County performs maintenance, debrushes, dips, and sprays along the county ditches to allow for maximum flow rates within the ditches to prevent undue flooding. The county also inspects all ditches that have work done to make sure spraying for brush, reconstruction, and dipping of ditches are performed to the contract specifications. Contractors are



required to stabilize areas of reconstruction where disturbed ground is present with erosion control blanket or other stabilization measures per the contract. Outfalls are also required to have rip rap at the outfall point to prevent scouring. All disturbed areas are required to be seeded to Surveyor's Office standards.

The Surveyor's Office documents the linear feet of the County's conveyance system that is cleaned, repaired, and or vegetated as well as the specific locations at which these activities are conducted. This is done in order to provide payment to the contractors that perform the work and in order to prepare for bid submittals that are sought for the work to be done. Please see attached Allen County Surveyor's Office Drain Maintenance By Year Through 2020 document for a general overall summary of drain maintenance activities.

The County Highway Department documents and logs the amount of materials collected from catch basins, trash racks and other structural BMPs, along with street sweeping within their tracking systems. The County Highway Department is required to track the amount of litter picked up and the number of outfalls where stabilization measures were added to prevent scouring. The County Highway also tracks the linear feet of roadside shoulders and ditches stabilized and the linear feet of roadside vegetation applied. County Highway street sweeping is done annually in the spring in subdivisions to remove debris accumulated over the winter and to keep potential pollutants from entering the storm drains. The County has contracted with a waste disposal company to collect and dispose of all materials collected. For amounts of materials collected, see attached Allen County Highway Department Annual Reports.

The Town of Leo-Cedarville staff repairs damaged storm structures and conveyances and investigates complaints and other issues around town. During this reporting period, the town inspected storm structures to determine if repair or cleaning activities were needed, created compost bins for biodegradable waste, and performed Leaf Vac services throughout the town. Street cleaners were hired by the Town to clean and sweep debris from the streets. The streets in Town are all swept at least once annually. An article was included in the local newspaper that detailed proper procedures for leaf removal and storage along streets, including keeping leaves, trash, and debris away from storm drains and ditches.

The Town of Huntertown has a maintenance crew of about five employees that responds to complaints and performs regular maintenance on the storm conveyance system within the town. Huntertown maintenance crews inspect all storm structures to determine if repair or cleaning activities are needed. Huntertown maintenance crews make a point to street sweep on a regular basis to pick up litter and inorganic debris to prevent these materials from entering into the storm sewer system. The Town of Huntertown has developed their own Street Sweeping Standard Operating Procedure (SOP) that is followed.

#### **BMP 2 – Stormwater Pollution Prevention Plans (SWPPPs)**

- Municipal facilities will establish and update SWPPPs for MS4 owned facilities where potential pollutants are stored
- Include facility inspection sheets, employee training forms, and spill documentation as part of SWPPP
- Develop additional SWPPPs for new facilities or operational areas

Progress –

The Allen County Surveyor's Office created Stormwater Pollution Prevention Plans (SWPPPs) for all municipal facilities (including co-permit facilities) that were deemed to have a reasonable quantity of some sort of hazardous waste or pollutant stored on site. These SWPPPs are all located on the walls within the facility in prominent view for employee reference. These SWPPPs are updated each permit term and contain pollution prevention practices related to Secondary Containment, Salt/Sand Management, Snow Disposal Areas, Spill Prevention and Clean Up, Fertilizer and Herbicide storage practices, Waste Disposal, and Wash Water Management. The Allen County Surveyor's Office has a Facility Pollution Prevention Inspection Checklist Form available for municipal facilities to utilize for their routine facility inspections. Additionally, the Surveyor's Office has provided the municipal facilities with a Spill & Cleanup Form that is to be completed every time there is a spill with a quantity of 5 gallons or more. Lastly, the county has a Municipal Facility Material Inventory listing that provides a listing of materials stored at the various county municipal facilities.

#### Sand/Salt Storage

Currently sand and salt is stored in four barns with asphalt floors. These are covered facilities. However, before the winter season, there may be times when there is more sand and salt ordered than what can be stored in a couple of these barns. During these times, the County Highway has sand and salt stored outside of the covered barns. A containment berm is placed all the way around the stockpile to minimize runoff of sand and salt. A large tarp was purchased that is utilized to cover the sand/salt storage pile and is fastened down with blocks and straps. The runoff from storage areas at the north barn is directed to a gravel/rip rap swale conveyance system that runs south to a vegetated swale before exiting to a roadside ditch. Any sand and salt that would somehow flow offsite would be captured within the rock-lined swale or the vegetated swale downstream. The south barn has a similar situation in that there is a stone swale that is downstream of the stockpile containment area. Any particulates that are suspended in storm flows settle within the stone swale. This stone swale also has check dams located at a couple of different points within the swale. For amounts of sand/salt materials used annually, see attached Allen County Highway Department Annual Reports. Additionally, Allen County has a Salt and Sand Storage Pile Standard Operating Procedure available that details pollution prevention practices for the storage of salt/sand piles.

Additionally, the Huntertown Town Maintenance facility utilizes a new winter de-icing agent called "Magic Salt" that is made from a patented blend of magnesium chloride and condensed distiller solubles. It is non-toxic, bio-degradable, environmentally friendly (releasing far less chlorides into the environment than either plain rock salt or calcium chloride), and has a corrosion index lower than distilled water. Rock salt applications are reduced by 30-50%. The need for sand on pavement is virtually eliminated.

#### Wash Water Management

Currently, all county cars are taken to commercial car washes. The county washes its large trucks in a contained area with a hard surface that drains to a sumped catch basin with a filter insert. This basin and the filter insert are cleaned regularly and the materials are disposed of by a waste disposal company. Additionally, the SWPPP for the South Highway Barn was updated with language that says if trucks are cleaned outside, no soap will be utilized (per the IDEM audit request). Allen County and the co-permits have developed a Standard Operating Procedure (SOP) for Vehicle and Equipment Washing. This SOP outlines standard procedures for washing county cars, trucks, and equipment. This SOP provides requirements for wash locations of large trucks and equipment and outlines the best management practices that must be utilized.

### Fertilizer and Pesticide Management

The Highway Department does not store or apply any fertilizer or pesticides and only stores and applies herbicides. The Highway Department uses herbicides that are mixed and applied by employees who have been properly trained and are licensed by the State of Indiana. Currently, there are several employees who have applicator licenses at the Highway Department and all spraying is done out of the North Barn. The trained individuals are required by the State of Indiana to take part in training sessions on proper handling, mixing, use, application, proper storage, and documentation of all chemicals used every year. All storage of herbicides takes place in a small, secure room with no floor drains. This room is constructed to meet specifications and requirements of the State of Indiana for its intended use. The Allen County Vector Control facility also stores chemicals and has a secure room with no floor drains that is lower than the outside areas to contain spills. Secondary containment is utilized for the storage of open containers. Allen County Vector Control has four employees with applicator licenses for pesticides to spray for mosquitos and ticks. The license expires every year and the certification expires every 5 years. To maintain the certification, employees must maintain credits for each category.

The Allen County Surveyor's Office also has one person with an applicator license. The Surveyor's Office requires their contractors to have a valid pesticide/herbicide license to do any spraying along the ditches or other projects. Contractors spray a 2-4D type of spray that hits invasive weeds and woody vegetation only and does not kill grasses. The Surveyor's Office requires a copy of a valid license at the time of bidding the project. The Surveyor's Office applies herbicides along ditches to eliminate woody vegetation and invasive plants species and weeds such as thistles from growing along the ditch and having their seeds drift to nearby farm fields and neighbors' yards. The Surveyor's Office prefers to establish native grasses and sprays in the spring when the green vegetation is starting to sprout. The Surveyor's Office takes care to have the contractor avoid spraying into the ditch as contractors have extension booms that can be lowered to hit the embankment only and not the water. Some have cannons that shoot the spray across the ditch to the opposite embankment.

### Vehicle Maintenance Areas

The County utilizes oil and water separators within the Highway Department's two maintenance facilities and has additional water quality separator units at the County Service Center and at the Building Maintenance Storage Building. The oil and water separators are operated and maintained according to the manufacturer's specifications. The County documents all maintenance activities associated with the oil and water separators. A contractor or the City of Fort Wayne is hired to come out and clean the oil and water separator units and dispose of the materials. The oil/water separator units at each facility are cleaned annually and it is documented who cleaned it.

The Surveyor's Office mapped the storm pipe systems and the shop floor drains within the county municipal facilities. The storm pipe system mapping and the locations of the oil and water separators is shown on the facility SWPPP. The internal shop floor drains are marked with a label that states they drain to an oil separator unit.

### Waste Disposal

All trash and debris collected along the roadside and from day to day operations at county highway facilities is sorted and disposed of through Republic Services, Waste Management or other acceptable service provider. Used oil is disposed of through Safety-Kleen, Inc. Used batteries are typically disposed of through Napa Automotive or other battery vendors. Wood products are ground into mulch. Spoil and accumulated sand and sediments are placed into a contained stockpile and removed on a regular basis by a private contractor.

Allen County and the co-permits have developed a Standard Operating Procedure (SOP) for Disposal of Waste and Used Materials. This SOP outlines what must be done by Allen County and co-permit staff in regard to disposal of street sweeping materials, trash and litter, catch basin cleaning materials, roadside ditch maintenance spoils, metals, tires, animal carcasses, used oil, used batteries, used absorbents, and internal facility waste materials. A tracking system will be maintained that details the amount of materials collected.

Most stockpiled materials located at the County Highway Barns and other municipal facilities are located away from storm conveyances. Stockpiles located near swales have containment berms such as gravel or sand dams applied to prevent pollutants from running into the swale. Additionally, Allen County established a Stockpile and Composting Materials Storage Standard Operating Procedure that details pollution prevention practices for the storage of miscellaneous stockpiles/composting piles.

The Leo-Cedarville community recycling program placed community recycling trailers at their Schwartz Road location.

The Town of Huntertown provides a free drop-off area near the town's maintenance facility for residents to drop off yard waste and small woody vegetation. Residents can also pick up compost from this pile for their use at their leisure. This helps prevent yard waste from being disposed of improperly and helps keep this refuse away from the storm conveyances.

### **BMP 3 – Chemical Spill Response Plan**

- Implement and post spill response plans at all facilities where refueling activities occur or hazardous materials or other chemicals are used, mixed, and/or stored
- Document all facilities where the response plan is posted

Progress –

County municipal facilities such as the highway barns, the Vehicle Service Center, the Building Maintenance Storage Facility, the Huntertown and Leo-Cedarville Maintenance Garages, Vector Control, Fox Island and Metea Parks, the Sign Shop, the City-County Rousseau Building, and Community Corrections were deemed to have a pollutant contribution potential of moderate or higher. The Surveyor's Office provided each of the county facilities that were deemed to have a reasonable quantity of some sort of hazardous waste or pollutant stored on site with a large Stormwater Pollution Prevention Plan to hang on the wall along with posters for Spill Prevention, Vehicle Maintenance, Road Repair, and Grounds Maintenance. The SWPPP and the wall posters provide spill response procedures and phone numbers for the necessary agencies to call in case of a spill. Additionally, these facilities were provided with an 8 and a half by 11 copy of a Spill Prevention and Control Plan and Solid Waste Management Plan as part of the overall SWPPP. These facilities also had their storm pipe conveyances GPS mapped along with their internal floor drains for use within their SWPPPs.

Those facilities with a low potential to contribute pollutants to the storm conveyance systems received an 8 and a half by 11 copy of a booklet with General Stormwater Pollution Prevention Measures along with a Spill Prevention and Control Plan and Solid Waste Management Plan.

The Surveyor's Office has performed onsite inspections of the county facilities and corrective actions by the facilities were taken in response to these inspections. The facilities have installed best management practices to treat runoff before it flows off-site and they have installed secondary containment for the

storage of pollutants to prevent any potential contaminants from being able to enter into nearby storm conveyances. Berming has been added around stockpiles to prevent material from the stockpiles from running off. Old and unused containers have been discarded. Storage tanks have been updated to double-walled tanks. Absorbents have been added for use in areas where fueling will take place and spill kits have been added where needed. Additionally, Allen County has available a Fueling Standard Operating Procedure that details pollution prevention practices and the proper method of fueling vehicles at municipal fueling stations.

The Allen County Surveyor's Office created a Spill Prevention, Control, and Countermeasure (SPCC) Plan for both the North and South Highway Barns. Each of these facilities has their own plan. The facilities were deemed to meet the requirements for a Tier I Qualified Facility. The SPCC Plans were signed by the Highway Director and each of the Highway Barn Supervisors. These plans will be followed to help prevent a spill of oil-based pollutants into storm conveyance systems and to minimize the potential for spills to contaminate stormwater runoff.

**BMP 4 – Annual Good Housekeeping and Pollution Prevention Staff Training**

- Provide or promote annual training to appropriate staff on good housekeeping and pollution prevention topics
- Complete an annual walk-through of high priority MS4 facilities to follow-up on self-monitoring and to utilize as a training opportunity

Progress –  
See section (d) below.

The Surveyor's Office performed onsite inspections of the county facilities and corrective actions by the facilities were taken in response to these inspections. The facilities have installed best management practices to treat runoff before it flows off-site and they have installed secondary containment for the storage of pollutants to prevent any potential contaminants from being able to enter into nearby storm conveyances.

**BMP 5 – Flood Management Projects** = The County will assess new county-owned flood management projects for incorporation of water quality devices or practices.

Progress –  
Allen County assesses all new county-owned flood management projects for incorporation of water quality devices or practices. The last county-owned municipal project where detention was required was for a road reconstruction project at Till and Huguenard Roads as a new dry detention basin was established that incorporated vegetation of tall native grasses for water quality. All outfalls within this basin were stabilized with rip rap at the end of the respective pipe system. Additionally, a new highway department east salt and sand storage barn had a bioretention basin incorporated as a water quality best management practice.

Projects involving county ditch reconstruction or new construction of conveyances to prevent flooding are reviewed to see if practices can be incorporated or modified to address the reduction of pollutants associated with stormwater runoff. An inspector is on-site during construction to verify the project is constructed according to plan. Filter strips along the ditch banks are required and grassed waterways to convey flow are incorporated.

All existing county-owned detention basins and post-construction water quality best management practices are inspected regularly to determine if repairs or maintenance are needed within these structures. Repair and maintenance activities that are needed are documented in an inspection report form that is logged and filed for future reference. Pictures are taken and filed of any repairs or maintenance that may be needed. The county department owning the structure that needs repaired or maintained is then tasked with completing the necessary repair or maintenance.

Allen County and the co-permits have developed a Standard Operating Procedure (SOP) for Flood Management Project Review. This SOP outlines the requirement that all new municipal flood management projects must be reviewed and assessed for their impacts on water quality. Additionally, the SOP describes the requirement that any project resulting in the disturbance of 1 acre or more of total land area is subject to post construction requirements. Furthermore, all existing flood management projects will be examined for incorporation of additional water quality protection devices or practices. A tracking system will be maintained that details the location and a listing of post construction best management practices for each municipal-owned flood management project site.

Non-county owned projects:

Allen County reviews all privately owned projects with a disturbance of 1 acre or more to verify if post construction best management practices are proposed within the project that meet the counties' 80% Total Suspended Solids removal requirement.

Eagle Marsh – this greater than 1300 acre nature reserve was once part of a swamp that was drained in the late 1800s and is being restored from farmland back to natural wetlands. This restoration of wetlands will have a significant impact on flood control and water quality in the county, as well as downstream to the Wabash and St. Marys Rivers. The Army Corp of Engineers constructed a large berm in Eagle Marsh to prevent the migration of Asian Carp from the Wabash/Little River system into the Great Lakes watershed conveyance system. This berm will prevent this migration during flooding events since this is the watershed divide.

**BMP 6 – Canine Park Location =**

- Review any proposed projects for Canine Parks to ensure that all Canine Parks are sited at least one hundred fifty (150) feet away from a surface waterbody. The County will track the number and location of Canine Parks sited at least one hundred fifty (150) feet away from a surface waterbody.

Progress –

The county does not currently own or operate any canine parks. No canine park projects have occurred during this reporting period or any of the previous reporting periods.

**b.) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.**

The County Highway Department outsources erosion and sediment control plan designs and stormwater pollution prevention plans to an outside consulting firm for county highway road projects. It was felt that due to lack of staff time and availability and the ability of outside firms to generate cost effective erosion and sediment control plans, that this would provide an unbiased and better option toward

generating these plans. The Allen County Surveyor's Office has updated the procedure for generating SWPPP plans for projects based on the complexity and size of the project. The Surveyor's Office generally outsources stormwater pollution prevention plans for large or complex projects. The SWPPP for smaller projects are typically generated internally. All projects that require an approved SWPPP are sent to the appropriate review authority for SWPPP approval. A quality control review on the SWPPP may also be done internally by the Allen County MS4 Coordinator to make sure the SWPPP plan is adequate.

An implementation problem that currently exists at this point is trying to get municipal employees to document and log water quality data/activities and do this on a regular, consistent basis for input into the IDEM MS4 Annual Reports. The county purchased the ASIST database to help with this process, but there is still an issue with getting documentation and information input into the ASIST database or another database. Additionally, trying to get new employees trained on pollution prevention measures in a timely manner is an implementation problem as there are 1,640 full-time and part-time employees that comprise Allen County Government.

Another implementation problem is finding the staff resources to inspect and assess the county regulated storm conveyance systems to determine where repairs are needed and what projects get priority. The county has thousands of miles of regulated drain systems to monitor throughout the expanse of the county. Many of these older regulated drain systems are broken down and are in need of reconstruction. With limited staff and monetary resources, the Surveyor's Office must prioritize the drain projects where funding is available and where there is support from the watershed to pay the necessary watershed assessments to fund the project. Many times, it is difficult to determine which projects warrant priority.

Another implementation problem is trying to generate interest in investigating the use of alternative de-icing methods for snow and ice removal from roadways. Currently, the anti-icing materials used are sand, salt, stone chips, and calcium chloride. Calcium chloride mixed with sand and salt is used on roads that need to be cleaned to bare pavement. Stone chips are used on gravel roads when they become slippery. There are 30-40 trucks outfitted with systems that dispense liquid calcium chloride onto the salt-sand mixture.

Lastly, funding for water quality BMPs continues to be heavily scrutinized for proposed projects. Best Management Practices that are cost-effective will have to be looked at and utilized in order to stay within budget and ensure water quality protection is maintained.

**c.) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.**

See item (a) above.

Additionally, all county municipal facilities that store hazardous materials or other pollutants have implemented secondary containment measures such as storage totes to store these materials. Most fuel tanks or other chemical storage tanks at county facilities were updated to a dual walled tank. Tanks that were not updated have secondary containment. Berming has been added around stockpiles to prevent material from the stockpiles from running off. Old and unused containers have been discarded. Spill kits were purchased for each highway barn and are visibly labeled. Absorbents and signage have been added

for use in areas where fueling will take place. Storm drains have been GPS mapped and marked with storm drain markers.

The highway barns implemented rock swales and vegetated swales with tall grasses to help capture pollutants from runoff that was originating from the stockpile storage areas and the sand/salt storage areas on-site. Plantings were investigated and chosen based on their tolerance to salt/sand and filtering capabilities. Check dams were implemented in the rock swales to slow the flow to allow settling to occur. A large tarp to cover the sand/salt storage piles that are located outside of covered areas was purchased and is utilized. A sediment trap and rock channel was implemented at the North Barn on the southwest corner to prevent scour from runoff draining down a sloped area to the offsite roadside ditch. The North Barn also input sumped catch basins near areas where large trucks and equipment are washed in place of regular inlets to allow the potential for sediments to be captured. These sumped catch basins also have an ADS Flexstorm inlet filter to capture pollutants. These sumped catch basins and the filter are on schedule to be cleaned weekly.

The Allen County Vector Control facility also stores chemicals and has a secure room with no floor drains that is lower than the outside areas to contain spills. Secondary containment is utilized for the storage of open containers.

The County Highway East salt/sand storage barn has a bio-retention basin installed as a post construction best management practice to help remove sands, salts, and sediments. The watershed area around the barn all drains to the bio-retention area. The bio-retention area has a stone/sand trench with an underdrain to help further remove pollutants. The bio-retention area then drains to a vegetated swale for further pollutant removal. Also, the county developed a shovel-ready business park that has several post construction best management practices installed for pollution prevention. Post construction best management practices installed on this site include a hydrodynamic separator unit, two dry basins, a sediment forebay, three gabion basket check dams and energy dissipaters, a stone/vegetated swale, and a micro-pool. Additionally, the county has post construction best management practices in the form of dry detention basins with native tall grasses and catch basins at a few other municipally owned facilities.

**d.) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.**

The following storm water training opportunities were provided to municipal facility employees during the reporting period.

**January 15, 2019 – Inlet Protection & Pollution Prevention Lunch and Learn (Training for MCMs 3,4,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Inlet Protection & Pollution Prevention provided by EJ Prescott, Incorporated. The presentation provided information on drop inlet protection insert products, secondary containment products, berming products, dewatering bags, spill kits, and portable concrete washout containers made by ENPAC LLC. There were 3 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**January 31, 2019 – St. Marys River Stream Assessment Study Results Presentation (Training for MCMs 1-6)**



A presentation was provided on the results of the St. Marys River Stream Assessment Study that was completed by Siavash Beik of Burke Engineering and Robert Barr of IUPUI. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality. There were about 25 people in attendance.

**February 7, 2019 – Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, In Lieu Fee Program Updates, IDEM Wetlands Coordination, Industrial Outreach for MS4s, and a Site Inspection Stormwater Clinic to name a few. There were four people from the Allen County Surveyor's Office that attended and 6 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 12, 2019 – Sediment Control & Stormwater Management Lunch and Learn (MCMs 3,4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Sediment Control & Stormwater Management provided by EJ Prescott, Incorporated. The lunch and learn discussed various sediment control measures and stormwater management best management practices on construction sites. There were 3 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**February 28, 2019 – Indiana Best Available Floodplain Mapping Webinar (MCMs 4,5)**

The IDNR Division of Water hosted a webinar to discuss the Indiana Best Available Floodplain Mapping project and how the data should be used. The announcement was provided to area engineers and contractors. There were 5 people from the Allen County Surveyor's Office that attended this training webinar.

**March 6, 2019 – Purdue Road School (MCMs 4,5)**

This conference event had multiple technical sessions on a variety of roadway construction topics, including some sessions that discussed water quality related topics such sediment control/rolled filtration devices and wetland permitting. There were five people from the Allen County Surveyor's Office that attended for one day and six people from Allen County Highway Department that attended for two days.

**March 26, 2019 – Innovations in Manhole Design and Installation Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Manhole Design & Installation provided by EJ Prescott, Incorporated. There were 4 people from the Surveyor's Office that attended with about 15 people total in attendance, including contractors and engineers.

**April 30, 2019 – Illicit Discharge Detection and Elimination Webinar (MCM 3)**

This one-hour webinar identified and provided examples of commonly encountered illicit discharges, discussed various methods and means available to assist with the elimination of illicit discharges, provided guidance for IDDE program compliance documentation, and discussed a field guide for MS4 personnel. Matt Jarrett (Allen County MS4 Coordinator) from the Surveyor's Office attended this webinar.

**May 14, 2019 - Indiana MS4 Partnership Annual Meeting (MCMs 1-6)**

The Allen County Surveyor's Office attended the IDEM annual MS4 meeting to be trained on information concerning the regulatory requirements of the MS4 programs. Allen County MS4 Coordinator Matt Jarrett attended as did Jackie Buck from the Allen County Partnership for Water Quality.

**June 17, 2019 – Municipal Facility Good Housekeeping & Pollution Prevention Training (MCMs 3,4,5,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided good housekeeping and pollution prevention training, illicit discharge training, and construction and post construction municipal project training to Allen County employees and Leo-Cedarville and Huntertown maintenance employees. A presentation and videos were provided for this training. There were 16 employees present with the large majority comprising Allen County Highway Barn employees.

**June 26, 2019 – Training for Leo-Cedarville Employees (MCMs 1,2,3,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided the Town of Leo-Cedarville employees with training to prepare for the upcoming IDEM audit on public education, public involvement, IDDE, and good housekeeping and pollution prevention. An overview of their program and the materials necessary for the audit were discussed along with areas needing improvement. There were 5 town hall employees present for this training.

**June 27, 2019 – Training for Huntertown Employees (MCMs 1,2,3,6)**

Allen County MS4 Coordinator, Matt Jarrett, provided the Town of Huntertown employees with training to prepare for the upcoming IDEM audit on public education, public involvement, IDDE, and good housekeeping and pollution prevention. An overview of their program and the materials necessary for the audit were discussed along with areas needing improvement. There were 2 town hall employees present for this training.

**August 6, 2019 – Day at the Lake (MCMs 1-6)**

This was a field trip open to the public where residents could take a bus trip to Lake Erie and take a tour of an open lab on the lake to see demonstrations of water quality tests performed by Ohio State University faculty on the lake waters. Presentations on water quality topics were also provided by Ohio State faculty. There were 4 people from the Allen County Surveyor's Office that went on this trip and there were about 50 residents that went on this day long bus trip.

**September 4-6, 2019 - INAFSM Annual Conference (MCMs 1-6)**

Matt Jarrett, MS4 Coordinator for Allen County, and Jackie Buck, educator for the Allen County Partnership for Water Quality attended the INAFSM conference in Fort Wayne in its entirety. This conference had many presentations on varying water quality and stormwater topics.

**September 17, 2019 – Back to Life: Successful Stream and Wetland Restoration Webinar (MCMs 4-6)**

This webinar provided by Davey Resource Group provided information to help MS4s understand the process of successful stream and wetland restoration processes. Matt Jarrett from the Surveyor's Office attended this webinar.

**October 3, 2019 – Construction Site Stormwater Management Workshop (MCMs 3-6)**

The City of Fort Wayne hosted a daylong water quality workshop for engineers, contractors, developers, and municipal employees where presentations were provided on Polymers, Stormwater Management and Contractors, Parkview Field Stormwater, Drone Technology, House Bill 1266 Permit Revisions, Case Studies from AEP's Stormwater Management Programs, and Indiana Statutes and Rules Applicable to the Practice of Engineering. There were PDHs available to participants at this workshop. There were about 50-70 people at this workshop including the Allen County MS4 Coordinator.

**November 19-21, 2019 – Migrating from ArcMap to ArcGIS Pro (MCMs 3,5)**

This workshop provided training for migrating from GIS ArcMap to ArcGIS Pro, which is used to map pipe systems, storm structures, outfalls, and post construction BMPs. There were 6 people from the Surveyor's Office that attended.

**December 3, 2019 – Innovations in Stormwater Infiltration & Storage Lunch and Learn (MCMs 4,5,6)**

The Surveyor's Office staff attended a one-hour lunch and learn on Innovations in Stormwater Infiltration & Storage provided by EJ Prescott, Incorporated. The lunch and learn discussed various infiltration best management practices for new construction sites. There were 4 people from the Surveyor's Office that attended with about 18 people total in attendance, including contractors and engineers.

**January 14, 2020 – The Evolution of Turf Reinforcement Mat Technology (MCMs 4-6)**

The Surveyor's Office staff attended a one-hour lunch and learn on new turf mat technology provided by EJ Prescott, Incorporated. The webinar focused on a new form of plastic matting that has plastic grass and allows real grass to grow through the cloth/wire mesh base and amongst the plastic grass. There were 6 people from the Surveyor's Office that attended with about 20 people total in attendance, including contractors and engineers.

**January 15, 2020 – Stormwater Management: Understanding Compliance and Green Infrastructure Practices (MCMs 4-6)**

This webinar provided by Davey Resource Group covered the basics of stormwater regulatory requirements before and during construction as well as the required post-construction best management practices (BMPs). BMP examples, such as biofiltration systems which promote absorption of stormwater runoff and the elimination of pollutants were reviewed. Matt Jarrett from the Surveyor's Office attended this webinar.

**February 6, 2020 - Purdue LTAP Stormwater Drainage Conference (MCMs 3,4,5,6)**

This conference had sessions dealing with IDEM Stormwater Program Updates, discussed IDEM's Electronic Regulatory Portal for Construction Sites, had a presentation on Gross Solids Removal to Improve Water Quality, and a Site Inspection Stormwater Clinic to name a few. There were five people from the Allen County Surveyor's Office that attended and 2 people from the Allen County Highway Department that attended. There were several engineers from Allen County that attended.

**February 25, 2020 – Protecting & Maintaining Post Construction Best Management Practices Workshop (MCMs 1-6)**

This morning workshop provided information on the long-term maintenance and protection of post construction measures including the initial protection of these measures during construction activities, discussed hydrodynamic separator units regarding how they work and how to maintain them, and discussed post construction BMPs utilized to satisfy the regulatory requirements. Presentations included: *Protecting & Maintaining Post Construction BMPs*, Matt Jarrett, MS4 Coordinator, Allen County Surveyor's Office (presenter); *Water Quality Units and Inlet Protection - Function and Maintenance*, John Hallam and Ryan Wanninger, Advanced Drainage Systems, Inc., and Steve McCarthy, Hydro International (presenters); *Post Construction BMPs Monitoring and Maintenance*, Jim Blazek, General Manager of D2 Land & Water Resource, Inc. (presenter). ACEC Accredited Personal Development Hours were available for this workshop. This workshop was organized by the Allen County MS4 Coordinator, Partnership for Water Quality Educator, and one person from the Maumee Watershed Alliance. There were 64 people in attendance at this workshop including many contractors,

developers, engineers, and municipal employees including the Allen County Highway Department and Surveyor's Office.

**March 3, 2020 – Extending Pavement Life with Geosynthetic Interlayers (MCMs 4-6)**

Two people from the Allen County Surveyor's Office attended this seminar provided by Huesker that discussed geosynthetic interlayers with regard to pavement.

**March 4, 2020 – Identifying Wetlands for Project Planning and Plan Review Webinar (MCMs 4-6)**

This webinar provided by Wessler Engineering provided information to help MS4s understand the process of identifying wetlands, avoiding impacts during maintenance activities, and permitting wetland impacts for public projects. It also provided information to help MS4s identify potential wetlands during Rule 5 and drainage plan reviews. There were 3 people from the Surveyor's Office staff that attended this webinar.

**June 5, 2020 – Innovations in Total Stormwater Management Webinar (MCMs 4-6)**

Surveyor's Office staff attended this one-hour lunch and learn webinar that focused on separator units, wetland bioretention cells, and underground detention products. The webinar was provided by EJ Prescott, Incorporated. There were 2 people from the Surveyor's Office that attended this webinar.

**June 26, 2020 – Stormwater Drainage & Storage Toolbox Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on underground stormwater storage units. The units allow water to infiltrate out into the soil to convey water into the ground. The unit is great for under hard surfaces and around tree planters since the water is conveyed to the trees. The webinar was provided by EJ Prescott, Incorporated.

**July 10, 2020 – Revegetation: Building the Best Possible Soils Webinar (MCMs 4-6)**

The Allen County MS4 Coordinator attended this one-hour lunch and learn webinar that focused on revegetation best management practices. The webinar was provided by EJ Prescott, Incorporated.

**August 12, 2020 – Avoiding the Emergency Room: Sewer System Health and Preventative Care Webinar (MCMs 5,6)**

This Wessler Engineering webinar discussed how a structured plan for preventative care can help your sewer system, described the steps of forming an asset management plan for your sewer system, and discussed how the health and longevity of the sewer system can reduce long-term costs. There were 2 people from the Surveyor's Office that attended this webinar.

**August 18, 2020 – Concrete Pipe Virtual Tour (MCMs 4-6)**

Two people from the Allen County Surveyor's Office attended this virtual webinar that discussed concrete pipe and provided a virtual tour of two facilities that manufacture this type of pipe.

**September 16-18, 2020 – INAFSM Annual Conference (Virtual) (MCMs 1-6)**

This virtual conference provided presentations on varying water quality and stormwater topics that covered training on all the minimum control measures. Many of the presentations discussed the new IDEM construction and MS4 general draft permits that are scheduled for ratification in 2021. Matt Jarrett, MS4 Coordinator for Allen County attended 10 virtual sessions and the Surveyor's Office stormwater quantity plan reviewer attended most all of the virtual sessions. Allen County's part-time MS4 educator also attended the MS4 sessions.

**September 27, 2020 – World Rivers Day Ecology Tour (MCMs 1,2,3)**

Two ecology tours of the St. Joseph River in Fort Wayne were offered on a pontoon going up and down the river. During the tour, the organizer offered educational information to the participants regarding the ecology and water quality along the river. Matt Jarrett, MS4 Coordinator for Allen County participated in the second tour.

**October 13 & 20, 2020 – Fort Wayne City Utilities Virtual Training Sessions (MCMs 3-6)**

During the month of October, the City of Fort Wayne hosted weekly online training sessions for Stormwater and Water Quality Professionals and Engineers. Two members of the Allen County Surveyor's Office attended the following virtual presentations: Preventing BMP Maintenance Mayhem: Case Study, Birmingham, Alabama; Effectiveness of BMPs in Stormwater Management; and Post-Construction BMPs: Specifying, Inspecting, and Maintaining Underground Detention and MTDs. There were PDHs available to participants of this online training.

**October 22, 2020 – Burke Webinar Series – Concrete Washout Challenges Panel Discussion (MCMs 3,4,6)**

This webinar provided meaningful discussion between industry professionals and regulatory inspectors on the challenges and potential solutions with delivering concrete and washing out the trucks on an active construction site in a manner to cause the least amount of environmental harm. It also discussed some common myths regarding acceptable and unacceptable best management practices. Matt Jarrett, MS4 Coordinator for Allen County attended this webinar.

**December 18, 2020 – USACE Inundation Mapping Webinar (MCMs 4,5,6)**

This webinar described recent updates to USACE inundation map sharing policies making them accessible to the public, provided updates on USACE plans to make dam EAP maps publicly available within the National Inventory of Dams in late 2021, and provided a demonstration of how people can access and use USACE dam emergency action plan EAP maps once available in the National Inventory of Dams. Two people from the Allen County Surveyor's Office attended this webinar

**e.) Other:**

Allen County Vector Control has a Standard Operating Procedure (SOP) for Mosquito Control Chemical Safety that outlines how the chemicals are to be stored, the required training of the applicators, how often the chemicals are applied, how the application areas are chosen, the measures taken to prevent chemical contamination of waterways, and the procedure for transport of chemicals to the site. Additionally, Vector Control has a Standard Operating Procedure for Rodent Control Chemical Safety that outlines how the chemicals are to be stored, the required training of the applicators, how often the chemicals are applied, how the application areas are chosen, and the measures taken to prevent chemical contamination of our waterways.

The Allen County Surveyor's Office also created a Standard Operating Procedure for Illegal Dumping Areas. This SOP details what municipal employees should do if they find an illicit discharge in the field. Allen County's Illicit Discharge Detection and Elimination Plan is also included within this SOP as an appendix to provide information on the step by step procedures for detecting and eliminating illicit discharges.

The Allen County MS4 Coordinator has GPS located and mapped the inlets, manholes, pipe, control structures, outfalls, and water quality separator units of the Allen County Municipal facilities. The manholes for each facility were stenciled with spray paint that described if the conveyance system drained to a sand and oil separator or if they were sanitary lines. Storm inlets were marked with a “No Dumping, Drains to Stream” plastic decal. The Allen County MS4 Coordinator utilized the mapping to produce a Stormwater Pollution Prevention Plan for each facility. The plan incorporated a GIS map showing the pipe and outfalls and showed where hot spot areas were located within each facility where pollution prevention measures were of a high priority. Representatives of each facility were trained on the use of their SWPPPs.

The County Highway Department purchased ten stainless steel boxes for dispensing anti-icing materials. Because the boxes hold a greater capacity of material, downtime for traveling to and from maintenance barns to reload is reduced. In addition, a new state-of-the-art dispensing and distribution system will help de-ice the roads more quickly and efficiently. This system dispenses and monitors salt dispersion and application more efficiently meaning less salt is applied to the roads and into the environment.

The Allen County Highway Department uses anti-icing materials such as sand, salt, calcium and magnesium chloride, and stone chips. A sand-salt mixture is used on most roads. Calcium/magnesium chloride mixed with sand and salt is used on roads that need to be cleaned to bare pavement. Stone chips are used on gravel roads when they become slippery. On higher traffic count highways, liquid calcium/magnesium chloride is applied along with a salt-sand mixture. 36 trucks are outfitted with systems that dispense the liquid onto the salt and sand. The calcium/magnesium chloride solution speeds the chemical reaction of the salt, which in turn melts snow and ice much quicker.

The Allen County North Highway Barn and the Allen County South Highway Barn purchased spill kits to address potential large spills. Other county departments were contacted to alert them that the county barns were equipped with these spill kits that could be of use as a resource for large spills located anywhere throughout the county. The Highway Barns each have one Eagle M#1690 95 gallon spill kit with 20 ten foot absorbent socks and 2 gloves. They also have 2 Pig spill kits (M202) with absorbency of 60 gallons and spill volume of 50 to 79 gallons. They have assorted socks and mats and disposal bags in them. They each have 4 other kits with just an absorbent in them for small oil or fuel spills.