

Executive Board

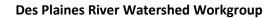
1/19/2017

2:30 - 3:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (12/15/16)
- 4. Public Comment
- 5. Contract Extension for Burns & McDonnell
- 6. Suburban Labs Contract
- 7. Suburban Labs Data Formatting
- 8. 2017 MBI Contract
- 9. Budget and Membership Dues for FY 2017
- 10. By-Law Proposed Revisions
- 11. 2016 Annual Accomplishments Draft Document
- 12. Draft Workplan for the DRWW
- 13. Monitoring Committee Update
- 14. Lakes Committee Update
- 15. Old Business
- 16. Other Business Demo of Impaired Waters and DRWW Monitoring Sites Interactive Map
- 17. Next Executive Board Meeting March 16, 2017
- 18. Adjourn





Executive Board

1/19/2017

2:30 PM-5:00 PM

Lake County Central Permit Facility, 500 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 2:35 pm.
- 2. Roll Call see attendee list below.
- 3. Previous Meeting minutes: Peter Kolb made a motion to approve the minutes. Paul Kendzior seconded the motion. The motion passed unanimously.
- 4. Public Comment: None.
- 5. Contract Extension for Burns & McDonnell (B&M) for Flow Monitoring services: A revised proposal for flow monitoring contract extension was received by the DRWW from B&M. The 2016 contract was for \$39,600, the revised proposal to extend the work into 2017 is \$34,600. There is still \$18,000 that B&M has not invoiced the DRWW for from the 2016 contract. Beth agreed to find out if the \$18,000 was part of the new estimate of \$34,600 or if they are planning to bill the DRWW for that amount. There was a motion to conditionally recommend to the Executive Board to approve the 2017 contract extension for \$34,600. Paul K seconded the motion. The motion passed unanimously.
- 6. Suburban Labs (SL) Contract: Mike A. gave the report working on reviewing the data and finding some quality issues. Mike A. suggested DRWW consider split samples with them during the next collection and having the Health Dept lab run them to see if results are similar. Mike A. reported that most of the data problems are with the field parameters and not the lab results. Then there was discussion about how much the DRWW will spend over the next 3 years on the SL contract work. Joe R led the discussion. He reported that he was going to remove some parameters, reduce the number of times other parameters are analyzed for and move some of the sampling dates to months when chloride could be analyzed for (winter). Joe came up with \$68,000/yr for everything except sediment. Sediment would be collected at 1/3 of the sites for the next 3 years at a cost of between \$8,000 and \$15,000. It was suggested we try to decide if we are comfortable with the quality of the data we are receiving from SL at the March meeting, and if not, consider putting it out for bid.
- 7. SL Data Formatting. Mike A. reported he was able to get the data he had received from SL into an EXCEL spreadsheet pretty easily and also into an ACCESS file which is query-able. Mike A. would still like SL to change the way they report the time and date, he said he would talk to SL about that.
- 8. 2017 MBI Contract. Joe R. reported that the Monitoring Committee had a conference call with Chris Yoder of MBI to discuss sampling over the next 3 years. Chris suggested we break the watershed up into 3 subwatersheds and sample each one once over the next 3 years.
 - a. Main Stem (2017)
 - b. Mill Creek/Bull Creek (2018)
 - c. Buffalo/Aptakisic/Indian Creeks (2019)

Bioassessment, water quality and sediment would be collected. SL will be collecting water quality samples from all 70 locations every year.

- 9. Budget and Membership Fees for 2017. Mike W. handed out at 2-page budget report and put it up on screen to explain it to the group. It included contractual adjustments discussed at the Monitoring Committee and previously on this agenda. Mike A made a motion to approve the FY 2017 budget as presented, Joe R seconded the motion. The motion passed unanimously.
- 10. By-Law Proposed Revisions. There was discussion about Art. V Section 9 and it was decided to delete it and modify Art. V Section 10 so that the Executive Board approves the budget and also contracts. As part of this, a "Financial Report" would become an agenda item at every Executive Board meeting in order to "Ratify Invoices." Everyone agreed these additional modifications made sense.
- 11. DRWW Workplan Beth A shared a draft document with the group. The document encompasses 4 strategies; Monitoring and Water Quality Assessment, Regulatory Relationships and Requirements, Water Quality Improvement Projects Planning and Implementation and Leadership and Engagement. Peter K said he wanted to have input on the document and everyone agreed input from all was important. It was agreed all comments and changes would be provided to Beth so she could revise the document before presenting it as a draft to the General Membership for their input.
- 12. Monitoring Committee Update Joe R had already covered items from the Monitoring Committee earlier in the meeting (B&M contract, SL contract, MBI contract).
- 13. Lakes Committee Update Mike A noted the Lakes Committee would be meeting in January.
- 14. Old Business None
- 15. Other Business There was discussion about the 2016 Annual Accomplishments document that Mike W is working on to be distributed at the next General Membership (Annual) meeting. Mike noted it will contain pie charts and bar graphs to help make the accomplishments easier to grasp and communicate to others.
- 16. Meeting was Adjourned at 5:00 pm.

Executive Board Members Present:

Brian Dorn, Acting President, NSWRD Peter Kolb, Applied Technologies Michael Talbett, Kildeer Paul Kendzior, Libertyville Joe Robinson, NSWRD Mike Adam, Lake County Health Department **Other Attendees:** Beth Adler, DRWW Technical Coordinator Mike Warner, Lake County SMC Patty Werner, Lake County SMC Tom Morthorst, Village of Third Lake Steve Vella, Libertyville Al Giertych, Lake County DOT Jim Anderson, LCFPD Steve Vella, Village of Libertyville



Executive Board

3/16/2017

2:30 – 3:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (1/19/17)
- 4. Public Comment
- 5. Watershed Plan Update
- 6. Financial Report
- 7. Water Quality Sediment Chemistry Contractor
- 8. Next General Membership Meetings (May/Aug/Nov)
- 9. DRWW Draft Work Plan
- 10. Inter-Agency MOU
- 11. NIP and Nutrient Trading Programs
- 12. Monitoring Committee Update
- 13. Lakes Committee Update
- 14. Old Business
- 15. Other Business
- 16. Next Executive Board Meeting April 20, 2017
- 17. Adjourn



Executive Board

1/19/2017

2:30 PM-5:00 PM

Lake County Central Permit Facility, 500 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 2:35 pm.
- 2. Roll Call see attendee list below.
- 3. Previous Meeting minutes: Peter Kolb made a motion to approve the minutes. Paul Kendzior seconded the motion. The motion passed unanimously.
- 4. Public Comment: None.
- 5. Contract Extension for Burns & McDonnell (B&M) for Flow Monitoring services: A revised proposal for flow monitoring contract extension was received by the DRWW from B&M. The 2016 contract was for \$39,600, the revised proposal to extend the work into 2017 is \$34,600. There is still \$18,000 that B&M has not invoiced the DRWW for from the 2016 contract. Beth agreed to find out if the \$18,000 was part of the new estimate of \$34,600 or if they are planning to bill the DRWW for that amount. There was a motion to recommend to the Executive Board to approve the 2017 contract extension for \$34,600. Paul K seconded the motion. The motion passed unanimously.
- 6. Suburban Labs (SL) Contract: Mike A. gave the report working on reviewing the data and finding some quality issues. Mike A. suggested DRWW consider split samples with them during the next collection and having the Health Dept lab run them to see if results are similar. Mike A. reported that most of the data problems are with the field parameters and not the lab results. Then there was discussion about how much the DRWW will spend over the next 3 years on the SL contract work. Joe R led the discussion. He reported that he was going to remove some parameters, reduce the number of times other parameters are analyzed for and move some of the sampling dates to months when chloride could be analyzed for (winter). Joe came up with \$68,000/yr for everything except sediment. Sediment would be collected at 1/3 of the sites for the next 3 years at a cost of between \$8,000 and \$15,000. It was suggested we try to decide if we are comfortable with the quality of the data we are receiving from SL at the March meeting, and if not, consider putting it out for bid.
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 - b. Mill Creek/Bull Creek (2018)
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- Budget and Membership Fees for 2017. Mike W. handed out a 2 page budget report and explained it to the group. Mike A made a motion to approve the FY 2017 budget as is, Joe R seconded the motion. The motion passed unanimously.
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- 12. Monitoring Committee Update Joe R had already covered items from the Monitoring Committee earlier in the meeting (B&M contract, SL contract, MBI contract).
- 13. Lakes Committee Update Mike A noted the Lakes Committee would be meeting in January.
- 14. Old Business None
- 15. Other Business There was discussion about the 2016 Annual Accomplishments document that Mike W is working on to be distributed at the next General Membership (Annual) meeting. Mike noted it will contain pie charts and bar graphs to help make the accomplishments easier to grasp and communicate to others.
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Executive Board Members Present:

Brian Dorn, Acting President, NSWRD

Peter Kolb, Applied Technologies

Michael Talbett, Kildeer

Paul Kendzior, Libertyville

Joe Robinson, NSWRD

Mike Adam, Lake County Health Department

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County SMC

Patty Werner, Lake County SMC

Tom Morthorst, Village of Third Lake

Steve Vella, Libertyville

Al Giertych, Lake County DOT

Jim Anderson, LCFPD

Steve Vella, Village of Libertyville



Executive Board

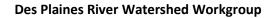
4/20/2017

2:30 – 3:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (3/16/17)
- 4. Public Comment
- 5. Watershed Plan Update
- 6. Financial Report
- 7. Suburban Labs
- 8. Meeting with DRSCW
- Next General Membership Meetings (May/Aug/Nov) May – Watershed Experience (Canoeing) August - Joint meeting with the Watershed Plan – WQ Background (Mike Pruscila) and DRWW Monitoring Results (Yoder)
- 10. DRWW Membership Dues Invoices
- 11. DRWW Draft Work Plan
- 12. NIP
- 13. Monitoring Committee Update
- 14. Lakes Committee Update
- 15. Old Business
- 16. Other Business
- 17. Next Executive Board Meeting June 15, 2017
- 18. Adjourn





Executive Board

3/16/2017

2:30 PM-4:00 PM

Lake County Central Permit Facility, 500 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 2:35 pm.
- 2. Roll Call see attendee list below.
- 3. Previous Meeting minutes: Michael Talbett made a motion to approve the minutes. Joe Robinson seconded the motion. The motion passed unanimously.
- 4. Public Comment: None.
- 5. Watershed Plan Update The Watershed Plan Year 1 Progress Report (March 2017) was handed out. Northwater has been hired to do modeling for the Watershed Plan. Mike Warner asked if the Committee was interested in combining DRWW meetings with Watershed Plan meetings. Everyone was in agreement that one General Membership meeting could be a joint meeting, but not all of them. Everyone liked the idea of a Watershed Bus Tour as a joint meeting with the Watershed Plan folks in August. Brian suggested that the Watershed Plan vs. DRWW's efforts need to be explained at a General Membership Meeting.
- 6. Financial Report Mike Warner handed out a financial report so the Executive Board can ratify invoices paid. Jim Anderson requested that a column be added to the financial report to show the date invoices were paid. Mike W agreed to add the column. From January 2017 through 3/14/17 \$83,372.51 was invoiced. Mike Talbett made a motion to approve \$83,372.51 in invoices, Joe Robinson seconded. Motion carried by voice vote.
- 7. Water Quality/Sediment Chemistry Contractor Suburban Labs (SL) Contract. Joe Robinson reported that he and Mike Adam both recommend that the contract with SL be extended and not put that work out for bid. They do, however, want to negotiate conductivity costs and some metals data where the detection limits were increased making that data unusable. Joe said the Monitoring Committee would have a contract extension for the May meeting.
- 8. Next General Membership Meetings (May/Aug/Nov) this was discussed in # 5 above.
- DRWW Draft Work Plan the DRWW received comments from the Village of Riverwoods via their contractor. There was discussion about picking the 3 top priorities for the DRWW annually. This year would be: 1) Watershed Plan 2) Improve Annual Monitoring Report for Permit Holders 3) NIP

Based on the Riverwoods comments the Board felt adding first/second year action steps and third through fifth year action steps should be broken out. Also adding some language about metrics.

Michael Talbett said he thinks a dialog with IEPA to find out what kinds of projects they would be happy with would be a good idea. Jim Anderson asked the Executive Board to provide Beth with direction on making the changes to the draft Work Plan. He asked the Board to send me their comments.

10. Inter-Agency MOU – Don Hey had provided a Memorandum of Understanding to the DRWW and several other groups for our review and signature. Don attended to explain to the Board

why he had issued the MOU. The purpose of the MOU is to provide an understanding of what will be done and how Wetlands Research, Inc. wants the DRWW and other groups to participate in the Wetland Pilot Project in Vernon Hills. Don was asked how he envisions the pilot project, a WRI project or a DRWW project? Don envisions it as a DRWW project. Peter K asked Don to send the Board Attachments A,B and C to the MOU, the financial spreadsheet and the paper explaining the cost calculation. Brian D asked Don to provide more specifics about the monitoring WRI would like DRWW to provide. There is a phone call scheduled with IEPA, US EPA, WRI and Don would like DRWW to participate to discuss the MOU. Don stated he would like the DRWW to oversee the pilot project. Joe R stated that if Don keeps it as a WRI project then the DRWW would support it.

- 11. NIP and Nutrient Trading Program A NIP is required for all POTWs in the watershed by 2019 except Northshore. Jim Anderson asked Beth to research other NIPs that might be available on-line and send them to the Board. Brian D said he would ask the IAWA folks if they have any thoughts on NIPs. Jim A asked if there was any funding to hire a contractor to complete a NIP? Jim A suggested that the Board invite the IEPA to come to our meetings and/or have quarterly meetings with IEPA. Al wondered if the DRWW should try to get all the workgroups connected?
- 12. Monitoring Committee Update Joe R shared the DRWW 2016 Annual Monitoring Report with the Board.
- 13. Lakes Committee Update Mike Adam was not present to give an update.
- 14. Old Business None
- 15. Other Business Beth is coordinating a meeting between the DRWW Executive Board and the Du Page River Salt Creek Watershed Workgroup on April 5.
- 16. Next Executive Board Meeting April 20, 2017
- 17. Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 4:30 PM

Executive Board Members Present:

Brian Dorn, Acting President, NSWRD

Peter Kolb, Applied Technologies

Michael Talbett, Kildeer

Joe Robinson, NSWRD

Jim Anderson, Lake County Forest Preserve District

Al Giertych, Lake County DOT

Steve Vella, Libertyville

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County SMC

Don Hey, Wetlands Research, Inc.

Kathy Paap, Wetlands Research, Inc.



Executive Board

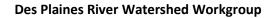
6/15/2017

2:30 - 3:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (3/16/17 (DRWW officer titles added) and 4/5/17 DRSCW and 4/20/17)
- 4. Public Comment
- 5. Watershed Plan Update
- 6. Geosyntec
- 7. Suburban Labs Contract Extension
- 8. MBI Contract Extension
- 9. Financial Report
- 10. Follow-up to US EPA/IEPA Conference Call on 3/23/17
- 11. NIP Approach
- 12. Member Recognition
- 13. Monitoring/Water Quality Improvements Committee Update
- 14. Lakes Committee Update
- 15. Old Business
- 16. Other Business
- 17. Next Executive Board Meeting June 15, 2017
- 18. Adjourn





Executive Board

6/15/2017

2:30 PM-4:00 PM

Lake County Central Permit Facility, 500 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Al Giertych called the meeting to order at 2:30 pm.
- 2. Roll Call see attendee list below.
- 3. Approve Previous Meeting minutes (3/16/17 (DRWW officer titles added) and 4/5/17 DRSCW and 4/20/17). Joe Robinson made a motion to approve all 3 meeting minutes. Alana Bartolai seconded. The motion passed unanimously.
- 4. Public Comment: None.
- 5. Watershed Plan Update Mike Prusila gave an update. The next watershed plan meeting will be July13 on "Transportation" at the Lake County DOT. Aug. 17 will be a joint meeting of the Watershed Plan and DRWW – Presentation of historic and recent data collected from the Watershed. The Watershed Plan contractor, Northwater, is doing non-point source load pollutant modeling – a landscape-driven model; not an in-lake model of pollutants suspended and recycled. Northwater's modeling results will be presented at the Watershed Plan's October meeting.
- 6. Geosyntec Contract Close Out Geosyntec has notified DRWW that they have closed out the contract on their end. Mike Warner recommended that the procedure for formal close-out in the contract language be followed and executed. Joe Robinson made a motion to close the contract out officially, Jim Anderson seconded. Mike Warner will take the lead on following the procedure in the contract to officially close it out.
- Suburban Labs (SL) Contract Extension Joe Robinson reported that the monitoring committee approved a contract extension for SL to do 4 sampling events in 2017 plus analysis. There was some discussion. Paul Kendzior made a motion to approve the contract extension. Al Giertych seconded. Motion passed unanimously.
- 8. MBI Contract Extension Joe Robinson reported that the monitoring committee approved the MBI contract extension and that Mike Warner will make amendments to the budget. There was some discussion and then Paul Kendzior made a motion to approve the MBI contract extension and make the budget amendments, Al Giertych seconded. The motion passed unanimously.
- 9. Financial Report Mike Warner presented the financial report. Mike W. reported that most dues have not been received yet. Joe Robinson reported that Northshore WRD's dues payment was approved on 5/15/17 for \$83,000, but have not been received by the DRWW yet. There were several invoices that had been paid by LCSMC since the last meeting. Paul Kendzior made a motion to approve payment of the invoices, Jim Anderson seconded. Motion carried by voice vote. There was some discussion about the need for a procedure going forward where Mike Adam and Joe Robinson review the data from SL before the payment is made.
- 10. Follow-up to US EPA/IEPA Conference Call on 3/23/17 Joe Robinson heard that Abel Haile of IEPA has been assigned to DRWW. His phone number is: 217-782-3362. Beth Adler asked if they committee felt like there were enough unanswered questions from the 3/23/17 call to

schedule another call. The consensus was no. Joe R. reported that Brian Dorn is on a committee with IEPA and NGOs that are negotiating NPDES permit limits. Brian will talk to IEPA thru this committee about how DRWW would like to move forward with the NIP (ask for a significant extension) and DRWW's overall approach. The approach would look something like:

2018: statistical analysis completed on data

2019: modeling results are released

2020: DRWW hires a contractor to write a NIP

Jim Anderson noted that DRWW has not budgeted for a contractor to write a NIP. Joe R. suggested that at the next meeting we approve \$60,000 for statistical analysis in 2018 and budget some money for a contractor to write a NIP.

- 11. NIP approach already discussed in number 10.
- 12. Member Recognition Beth Adler reported that Buffalo Grove won an APWA national award for their de-icing program. They are a member of DRWW. Did we want to recognize them? And how? After some discussion the committee agreed to invite them to our next General Membership Meeting in August and ask them to give a short presentation about what they are doing that is award-winning and some certificate or award would be given to them. Mike Warner said he would have Darcy work on the award.
- 13. Monitoring Committee Update this was already covered in #7 and 8 contract extensions.
- 14. Lakes Committee Update Alana Bartolai reported that the committee is working on putting a list of projects together and are offering a POD on manual plant removal from lakes.
- 15. Old Business None
- 16. Other Business None
- 17. Next Executive Board Meeting July 20, 2017
- Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 3:55 PM

Executive Board Members Present:

Al Giertych, DRWW Vice President, Lake County DOT

Paul Kendzior, DRWW Secretary, Village of Libertyville

Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD

Jim Anderson, DRWW Member at Large, Lake County Forest Preserve District

Alana Bartolai for Mike Adam, DRWW Lakes Committee Chair, LCHD

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County Stormwater Management Commission

Mike Prusila, Lake County Stormwater Management Commission



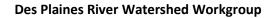
Executive Board

7/20/2017 2:30 – 3:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (6/15/17)
- 4. Public Comment
- 5. Financial Report
- 6. Monitoring/Water Quality Improvements Committee Update
- 7. Lakes Committee Update
- 8. Old Business
- 9. Other Business
- 10. Next Executive Board Meeting Sept. 21, 2017
- 11. Adjourn





Executive Board

6/15/2017

2:30 PM-4:00 PM

Lake County Central Permit Facility, 500 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Al Giertych called the meeting to order at 2:30 pm.
- 2. Roll Call see attendee list below.
- 3. Approve Previous Meeting minutes (3/16/17 (DRWW officer titles added) and 4/5/17 DRSCW and 4/20/17). Joe Robinson made a motion to approve all 3 meeting minutes. Alana Bartolai seconded. The motion passed unanimously.
- 4. Public Comment: None.
- 5. Watershed Plan Update Mike Prusila gave an update. The next watershed plan meeting will be July13 on "Transportation" at the Lake County DOT. Aug. 17 will be a joint meeting of the Watershed Plan and DRWW – Presentation of historic and recent data collected from the Watershed. The Watershed Plan contractor, Northwater, is doing non-point source load pollutant modeling – a landscape-driven model; not an in-lake model of pollutants suspended and recycled. Northwater's modeling results will be presented at the Watershed Plan's October meeting.
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- 8. MBI Contract Extension Joe Robinson reported that the monitoring committee approved the MBI contract extension and that Mike Warner will make amendments to the budget. There was some discussion and then Paul Kendzior made a motion to approve the MBI contract extension and make the budget amendments, Al Giertych seconded. The motion passed unanimously.
- 9. Financial Report Mike Warner presented the financial report. Mike W. reported that most dues have not been received yet. Joe Robinson reported that Northshore WRD's dues payment was approved on 5/15/17 for \$83,000, but have not been received by the DRWW yet. There were several invoices that had been paid by LCSMC since the last meeting. Paul Kendzior made a motion to approve payment of the invoices, Jim Anderson seconded. Motion carried by voice vote. There was some discussion about the need for a procedure going forward where Mike Adam and Joe Robinson review the data from SL before the payment is made.
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- 14. Lakes Committee Update Alana Bartolai reported that the committee is working on putting a list of projects together and are offering a POD on manual plant removal from lakes.
- 15. Old Business None
- 16. Other Business None
- 17. Next Executive Board Meeting July 20, 2017
- Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 3:55 PM

Executive Board Members Present:

Al Giertych, DRWW Vice President, Lake County DOT

Paul Kendzior, DRWW Secretary, Village of Libertyville

Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD

Jim Anderson, DRWW Member at Large, Lake County Forest Preserve District

Alana Bartolai for Mike Adam, DRWW Lakes Committee Chair, LCHD

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County Stormwater Management Commission

Mike Prusila, Lake County Stormwater Management Commission



Executive Board Meeting

with

Chris Yoder of Midwest Biodiversity Institute (MBI)

8/17/2017

10:00 - 11:30 AM

Libertyville Village Hall Board Room

118 W. Cook Ave, Second Floor

Libertyville, IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Public Comment
- 4. IPS Model
- 5. Old Business
- 6. Other Business
- 7. Adjourn



Special Meeting of the Executive Board

8/17/2017

10:00 PM-11:30 AM

Libertyville Village Hall, Second Floor, 118 W. Cook St, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 10:15 am.
- 2. Roll Call see attendee list below.
- 3. Public Comment None.
- 4. IPS model Chris Yoder presented a powerpoint presentation on what constitutes a bioassessment and the Integrated Prioritization System (IPS) Model. A bioassessment is a determination regarding how healthy the aquatic life is using biological indicators and chem/physical data. One of the designated uses of a water body under the Clean Water Act is "Aquatic Use." The law's language is "Protection and propagation of fish, shellfish and wildlife = Aquatic Life Use." This is a goal and expectation for how a water body will be used. Other uses include "Recreation", "Public Drinking Water Supply", etc. The Aquatic Life Use is the most stringent and therefore the driver for all actions. To evaluate Aquatic Life Use you need data on ionic strength, nutrients, sediment, metals, organics and chlorophyll-a. Collection of benthic macroinvertebrates varies by state, but results are reported uniformly. Habitat is evaluated based on: substrate, instream cover, channel quality, riparian, pool-run-riffle and gradient. Spatial sampling is critical to get enough data to see where impairments are on a restoration scale. Ecological health is the endpoint of concern.

The Habitat Profile is excellent on the main stem due to the Lake County Forest Preserve land. Moderate to high silt cover is pervasive in the Watershed. The end goal is biological assemblages that meet the State's biocriteria = 41 IBI.

Fish IBI – in 1983 the whole river was non-attaining poor rated. In 2016 the whole river is nonattaining fair rated. The improvement is likely due to wastewater treatment plant upgrades, according to Chris Yoder. If fish cannot get over a dam, it can affect the entire upriver of the Watershed. The smaller the stream, the lower the IBI score.

The macroinvertebrate index is met at all but 3 sampling locations.

No deformities were seen on fish (tumors, fin deformities, etc.)

MBI will report impairments and likely causes for the impairment. IEPA also lists causes for impairments but they do not always agree with MBI's.

Integrated Prioritization System (IPS) Model is an integrated analysis with an output that is an interactive GIS map. Output of model can be queried and "what if" queries.

It would be the end of 2018 to get a final report of the IPS model output.

- 5. Old Business None
- 6. Other Business None
- 7. Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 11:30 am.

Executive Board Members Present:

Brain Dorn, DRWW President, NSWRD

Al Giertych, DRWW Vice President, Lake County DOT Michael Talbett, DRWW Treasurer, Village of Kildeer Paul Kendzior, DRWW Secretary, Village of Libertyville Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD Jim Anderson, DRWW Member at Large, Lake County Forest Preserve District Mike Adam, DRWW Lakes Committee Chair, LCHD **Other Attendees:** Chris Yoder, MBI Beth Adler, DRWW Technical Coordinator Leslie Berns, LCFPD Austin McFarlane, Lake County Public Works Steve Vella, Village of Libertyville Mike Warner, Lake County Stormwater Management Commission Donald Hey, Wetlands Research, Inc. (WRI) Kathy Paap, WRI Isabella Jordi, WRI



Executive Board

<mark>9/28/2017 11:00 - Noon</mark>

Lake County Department of Transportation Conference Room

600 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (8/17/17)
- 4. Public Comment
- 5. Financial Report
- 6. Monitoring/Water Quality Improvements Committee Update
- 7. Lakes Committee Update
- 8. November General Membership Meeting
- 9. Old Business
- 10. Other Business
- 11. Next Executive Board Meeting Oct. 19, 2017
- 12. Adjourn



Executive Board

9/28/2017

11:00 AM-Noon

Lake County DOT Conference Room, 600 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 11:05 am.
- 2. Roll Call see attendee list below.
- 3. Approve Previous Meeting minutes 8/17/17 Paul Kendzior made a motion to approve the meeting minutes. Joe Robinson seconded. The motion passed unanimously.
- 4. Public Comment None
- 5. Financial Report Mike Warner went over the financial report handout. Membership dues for 2017 are about \$10,000 more than last year with the addition of 4 new members and all previous members renewing for 2017. MBI has indicated they have approx. \$14,500 extra from their contract that ends in 2017 for baseline data collection. If there aren't a lot of changes to be made to the draft report, they are estimating it will cost \$1,000 to finalize the report. There was also \$3,600 that was in the contract with Burns & McDonnell for contingent work which was never requested to be completed, so that money is available. Michael Talbett made a motion to ratify invoices that were paid since the last Executive Board meeting and presented in a table attached to the financial report. Mike Adam seconded. Motion was passed by a roll call vote, 6-0.
- 6. Monitoring/WQ Improvements Committee Update Joe Robinson led the update. Joe said that MBI did a really good job reporting our baseline data in their draft report and that some Committee members need more time to review the report. Siltation and Chlorides were identified in the report as the 2 biggest stressors. Comments should be going out to MBI by Oct. 9. The Committee may go over the comments with Chris Yoder (MBI) and the next Committee meeting. Jim Anderson noted that the report did not identify agriculture as a potential source of siltation. Joe said we will use the report to figure out what we can do about chlorides and siltation. Beth will prepare a 1 page fact sheet or summary of the report with SMC's graphic designer. Joe reported that the Committee will try to cut back on the monitoring we are doing; 70 sites 7X/year streamline that program and moving forward focus monitoring on our priorities. Jim Anderson asked if we had done any sediment loads? This was not done. Jim said we would have had a better idea of where the sediment is coming from if we had done loads.
- Lakes Committee Update Mike Adam gave the update. The next meeting will be the last Thursday in Oct. The Lakes Committee will look at both the MBI and Flow Monitoring Reports at that meeting and come back with some recommendations for the Executive Board.
- 8. November General Membership Meeting Beth reported that the Watershed Plan folks wanted to do a joint meeting with the DRWW in November. The Watershed Plan part of the meeting

would be "Watershed Plan Implementation Recommendations" which will be presented by their contractor, Northwater. There was some discussion and then agreement that a joint meeting would be fine. DRWW will need 20 minutes to conduct business at the November meeting to present the summary of the MBI report and some discussion about chlorides, maybe a chlorides policy. Jim Anderson shared that CMAP is working on their ON TO 2050 plan, with a section of it covering stormwater management. In April they should have a draft plan out. He suggested we consider inviting CMAP to present at our February General Membership Meeting.

- 9. Old Business None
- 10. Other Business Michael Talbett shared that he attended a Municipal League seminar with the director of the IEPA. He said IEPA is aware of our group and they are happy that we are working with DRSCW. IEPA's budget keeps getting smaller, fewer inspectors, fewer enforcement actions, permitting will take longer. Because of this they are being more flexible with the rules compliance through talking. The Nutrient Loss Reduction goal of 25% Nitrogen and Phosphorus by 2025 MWRD is going to launch a trading program to help make that goal. Michael also heard that the tax exemption for municipal bonds may be taken away, he was told to lobby to keep the tax exemption.
- 11. Next Executive Board Meeting Oct. 19, 2017 at the LCSMC Large Conference Room.
- 12. Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 12:10 PM

Executive Board Members Present:

Brain Dorn, DRWW President, NSWRD

Michael Talbett, DRWW Treasurer, Village of Kildeer

Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD

Jim Anderson, DRWW Member at Large, Lake County Forest Preserve District

Mike Adam, DRWW Lakes Committee Chair, LCHD

Paul Kendzior, DRWW Secretary, Libertyville Public Works Dept.

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County Stormwater Management Commission

Tom Morthorst, Third Lake



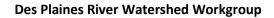
Executive Board

10/19/2017 2:30-3:30 pm

Lake County Stormwater Management Commission Medium Conference Room

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (9/28/17)
- 4. Public Comment
- 5. Financial Report
- 6. Technical Coordinator Contract
- 7. Monitoring/Water Quality Improvements Committee Update
- 8. Lakes Committee Update
- 9. Member Recognition (Certificate/Coin)
- 10. Old Business
- 11. Other Business
- 12. Next Executive Board Meeting December 21, 2017
- 13. Adjourn





Executive Board

9/28/2017

11:00 AM-Noon

Lake County DOT Conference Room, 600 Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order at 11:05 am.
- 2. Roll Call see attendee list below.
- 3. Approve Previous Meeting minutes 8/17/17 Paul Kendzior made a motion to approve the meeting minutes. Joe Robinson seconded. The motion passed unanimously.
- 4. Public Comment None
- 5. Financial Report Mike Warner went over the financial report handout. Membership dues for 2017 are about \$10,000 more than last year with the addition of 4 new members and all previous members renewing for 2017. MBI has indicated they have approx. \$14,500 extra from their contract that ends in 2017 for baseline data collection. If there aren't a lot of changes to be made to the draft report, they are estimating it will cost \$1,000 to finalize the report. There was also \$3,600 that was in the contract with Burns & McDonnell for contingent work which was never requested to be completed, so that money is available. Michael Talbett made a motion to ratify invoices that were paid since the last Executive Board meeting and presented in a table attached to the financial report. Mike Adam seconded. Motion was passed by a roll call vote, 6-0.
- 6. Monitoring/WQ Improvements Committee Update Joe Robinson led the update. Joe said that MBI did a really good job reporting our baseline data in their draft report and that some Committee members need more time to review the report. Siltation and Chlorides were identified in the report as the 2 biggest stressors. Comments should be going out to MBI by Oct. 9. The Committee may go over the comments with Chris Yoder (MBI) and the next Committee meeting. Jim Anderson noted that the report did not identify agriculture as a potential source of siltation. Joe said we will use the report to figure out what we can do about chlorides and siltation. Beth will prepare a 1 page fact sheet or summary of the report with SMC's graphic designer. Joe reported that the Committee will try to cut back on the monitoring we are doing; 70 sites 7X/year streamline that program and moving forward focus monitoring on our priorities. Jim Anderson asked if we had done any sediment loads? This was not done. Jim said we would have had a better idea of where the sediment is coming from if we had done loads.
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- 8. November General Membership Meeting Beth reported that the Watershed Plan folks wanted to do a joint meeting with the DRWW in November. The Watershed Plan part of the meeting would be "Watershed Plan Implementation Recommendations" which will be presented by their contractor, Northwater. There was some discussion and then agreement that a joint meeting would be fine. DRWW will need 20 minutes to conduct business at the November meeting to present the summary of the MBI report and some discussion about chlorides, maybe a chlorides

policy. Jim Anderson shared that CMAP is working on their ON TO 2050 plan, with a section of it covering stormwater management. In April they should have a draft plan out. He suggested we consider inviting CMAP to present at our February General Membership Meeting.

- 9. Old Business None
- 10. Other Business Michael Talbett shared that he attended a Municipal League seminar with the director of the IEPA. He said IEPA is aware of our group and they are happy that we are working with DRSCW. IEPA's budget keeps getting smaller, fewer inspectors, fewer enforcement actions, permitting will take longer. Because of this they are being more flexible with the rules compliance through talking. The Nutrient Loss Reduction goal of 25% Nitrogen and Phosphorus by 2025 MWRD is going to launch a trading program to help make that goal. Michael also heard that the tax exemption for municipal bonds may be taken away, he was told to lobby to keep the tax exemption.
- 11. Next Executive Board Meeting Oct. 19, 2017 at the LCSMC Large Conference Room.
- 12. Adjourn Jim Anderson made a motion to adjourn the meeting, Joe Robinson seconded. The meeting ended at 12:10 PM

Executive Board Members Present:

Brain Dorn, DRWW President, NSWRD

Michael Talbett, DRWW Treasurer, Village of Kildeer

Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD

Jim Anderson, DRWW Member at Large, Lake County Forest Preserve District

Mike Adam, DRWW Lakes Committee Chair, LCHD

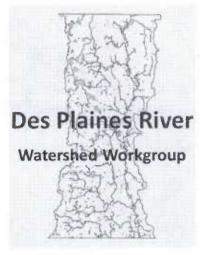
Paul Kendzior, DRWW Secretary, Libertyville Public Works Dept.

Other Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County Stormwater Management Commission

Tom Morthorst, Third Lake



Executive Board

12/21/2017 2:30-3:30 pm

Lake County Stormwater Management Commission Medium Conference Room

500 W. Winchester Road, Libertyville IL 60048

- 1. Call the meeting to order
- 2. Roll Call
- 3. Approve Previous Meeting minutes (10/19/17)
- 4. Public Comment
- 5. Financial Report
- 6. Meeting Schedule for 2018
- 7. Task Force Update
- 8. Work Plan Update 2018 Annual Action Steps
- 9. Upcoming General Membership Meetings
- 10. Monitoring/Water Quality Improvements Committee Update
- 11. Lakes Committee Update
- 12. Fox River Study Group (FRSG) Special Conditions Update Al Giertych
- 13. Finalize MBI/Flow Report Summaries
- 14. Old Business
- 15. Other Business
- 16. Next Executive Board Meeting January 18, 2018 @ 2:30 pm, Lake County Central Permit Facility
- 17. Adjourn



Watershed Workgroup

Des Plaines River Watershed Workgroup

Executive Board

10/19/2017

2:30-3:30 PM

Lake County Stormwater Management Commission

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

- 1. Call the meeting to order: Brian Dorn called the meeting to order.
- 2. Roll Call: All board members were present at the beginning of the meeting except Jim Anderson. Jim joined the meeting during the discussion of agenda item #6.
- Approve Previous Meeting minutes (9/28/17): Motion to approve made by Michael Talbett, Paul Kendzior seconded the motion.
- 4. Public Comment: None
- 5. Financial Report:
 - Paul Kendzior made a motion to ratify expenses as outlined in the financial report, Michael Talbett seconded.
 - b. Motion was passed by a roll call vote, 6-0.
- 6. Technical Coordinator Contract

Michael Talbett made motion for 3% increase, Paul Kendzior seconded the motion. 6-1 in favor. (Brian Dorn, Joe Robinson, Mike Adam, Michael Talbett, Paul Kendzior, Jim Anderson in favor, Al Giertych opposed.)

- 7. Monitoring/Water Quality Improvements Committee Update: Joe Robinson gave update on the monitoring program. Monitoring program will be adjusted including cutting parameters that did not seem critical (including sulfate, TOC, DO/Temp). Other changes will be less samples, reducing from 7 sampling events per year to 5 events. Continuous monitoring will hopefully increase for DO/Temp and in-kind conductivity from LCHD. Will need to change sampling plan with IEPA. Monitoring committee will modify by December meeting and approve Suburban Lab contract by January meeting with monitoring to begin in February.
- 8. Lakes Committee Update: Mike Adam gave the update. The next lakes meeting is next Thursday 10/26. At the meeting they will discuss potential modeling to look at internal vs. external loading and discussing potential to coordinate with Jeff Boeckler (contractor for the Des Plaines River Watershed Plan) with his work on nonpoint source modeling. This might require some field verification sampling in 2018.
- Member Recognition (Certificate/Coin): Coin seems unnecessary, but a certificate would be easy.
- 10. Old Business: Tom Morthorst Someone needs to go through and proof/edit proposed contract with Beth before renewal. Mike Warner will be in charge of this.
- 11. Other Business

Michael Talbett: Propose a task force that could work with MS4/IEPA to determine what efforts DRWW can provide to member permit holders. Authorize Beth to spend some of her hours to

organize the task force and have them present to the Executive Board. Get it on the agenda for the next meeting.

Jim Anderson – proposed having CMAP come out to talk about their 2050 Strategy plan. They also have technical assistance programs that might be worth it for DRWW to consider. Will have Beth reach out to have them be a speaker at February Annual (general membership) meeting.

12. Next Executive Board Meeting December 21, 2017 2:30 @ Central Permit Center

13. Adjourn: Michael Talbett motion to adjourn, Joe Robinson seconded, approved.

Executive Board Committee Members Present

Brian Dorn, DRWW President, NSWRD Michael Talbett, DRWW Treasurer Village of Kildeere Joe Robinson, DRWW Monitoring/WQ Improvements Committee Chair, NSWRD Mike Adam, DRWW Lakes Committee Chairman, LCHD Al Giertych, DRWW Vice President, LCDOT Paul Kendzior – DRWW Secretary, Libertyville Public Works Dept. Jim Anderson – DRWW Member at Large, LCFPD

Other attendees:

Tom Morthorst, Third Lake Alana Bartolai, LCHD Ed Coggin, Weston Austin McFarlane, LCPW

Des Plaines River Watershed Workgroup 2017 BUDGET (December 1, 2016 - November 30, 2017)		Аррг	oved Budget FY2016	FY2	016 Actual		proved Y2017		FV2017 Actual		ojected Y2018		ojected Y2019
REVENUE/Description	Account #												1000
Dues/Membership dues	775-4220010-46010	\$	225,000	\$	227,381	\$	225,000	\$	249,437	\$	225,000	\$	225,000
Expendable Carryover Addition	775-4220010-46010	\$	172,522	\$	172,523	\$	192,559	\$	192,559	\$	56,310	\$	55,310
Other State Funds/Illinois EPA 319 Grant	775-4220010-45350	5	47,500	5	-	\$	47,500	\$	47,500		_		
Other (FPD/LCDOT)				\$	47,707	_					1		
Total Revenue		\$	445,022	\$	447,611	\$	465,059	\$	489,496	\$	281,310	\$	280,310
EXPENSES/Description				L					-	_			
Consultants/Technical Coordinator (GeoSyntec thru 4/30/16) PO 154955	775-4220010-71150	\$	83,706	5	71,522	\$	12,184	\$	6,317	\$	4	\$	
Consultants/Tech Coordinator (Beth Adier) PO 166092	775-4220010-71150	\$	13,000	5	5,950	\$	57,000	\$	48,250	\$	57,000	\$	57,000
Consultants/Technical Coordinator (Post May 1st, 2016)	775-4220010-71150	5	6,800	\$		\$	1.0	\$	4,177	\$		\$	
Consultants/Monitoring Statistics and Project Prioritization (Future)	775-4220010-71150			\$								\$	27,000
Monitoring Strategy and QAPP Refinement (IEPA Reimbursable)	775-4220010-71170	\$	47,500	\$	8,624	\$					(4	-	
WQ-Sediment Analysis - (Suburban Labs - July 2016 - April 2017) PO 162822	775-4220010-71310	\$	33,252	\$	33,252			\$	82,437	-			
Suburban Laboratory's Fees/Water Chemistry Monitoring (July 2016 - March 2017)	775-4220010-71310	\$	60,343	5	60,343	\$	20,000			\$		\$	-
SubLabs - Chem All/yr; 1/3 Sediment/yr	775-4220010-71310	\$		5		\$	68,700			\$	84,000	\$	79,600
Pollutant Load Initial Flow Analysis - (Burns and McDonnell thru mid 2017)	775-4220010-71310	\$	24,257	\$	12,531	\$	18,445	\$	25,511	\$	-		
Burns and McDonnell Future Flow Analysis			-	-		\$	34,900	-		\$	20,000		
MBI - Initial Bioassessment/Sediment Sample-Analysis-Reporting (to 12/31/17) PO 164167	775-4220010-71310	5	77,168	\$	62,830	\$	132,520	\$	148,259	\$	-	\$	-
MBH - 1/3 WATERSHED SAMPLING (2017 and forward)	775-4220010-71310	\$		5	-	\$	65,000			\$	65,000	\$	65,000
Projected Expenses		\$	346,026	\$	255,052	\$	408,749	\$	314,951	\$	226,000	\$	228,600
Projected Unexpended Carryover		\$	98,996	\$	192,559	\$	56,310			\$	55,310		51,710
											_	Dues 0	Dependent

DRWW Des Plaines River Watershed Workgroup-Ex For Period Jan 2017 - December 13 2018 operase-Revenus Activity

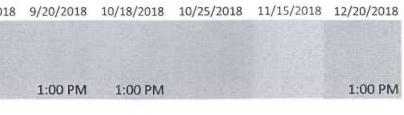
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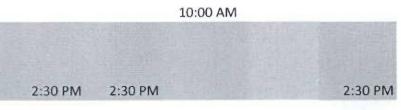
Revenues Received	Current	Total To Data	Received Data	DRWW Ratification
Carryover	\$192,559.00	\$192,559.00	1/27/2017	3/16/2017
Village of Grayslake	\$ 5,285.00	\$ 5,286.00	2/3/2017	3/16/2017
Applied Technologies	\$ 200.00	\$ 200.00	2/17/2017	3/16/2017
LCPW	\$ 60,000.00	\$ 60,000.00	5/19/17	6/15/17
LCFPD	\$ 12,941.00	\$ 12,941.00	S/19/17	6/15/17
Village of Buffalo Grove	\$ 3,722.00	\$ 3,722.00	6/19/17	7/20/17
Village of Deer Park	\$ 1,127.00	\$ 1,127.00	6/20/17	7/20/17
Village of Grayslake	\$ 5,286.00	\$ 5,286.00	6/19/17	7/20/17
Village of Gumee	\$ 6,736.00	\$ 6,736.00	6/20/17	7/20/17
Village of Hawthorn Woods	\$ 2,906.00	\$ 2,906.00	6/20/17	7/20/17
City of Lake Forest	\$ 283.00	\$ 283.00	6/18/17	7/20/17
Village of Lincolnshine	\$ 1,847.00	\$ 1,847.00	6/19/17	7/20/17
NEWRO	\$ 83,126.00	\$ 83,126.00	6/19/17	7/20/17
City of Park City	\$ 397.00	\$ 397.00	6/19/17	7/20/17
Village of Kildeer	\$ 2,297.00	\$ 2,297.00	7/10/17	7/20/17
Village of Lake Zurich	\$ 1,613.00	\$ 1.613.00	7/11/17	7/20/17
Village of Riverwoods	\$ 1,288.00	\$ 1,288.00	7/11/17	7/20/17
Village of Libertyville	\$ 14,488.00	\$ 14,488.00	7/25/17	10/19/2017
Village of Lindenhurst	\$ 7,595.00	\$ 7,595.00	7/25/17	10/19/2017
Village of Vernon Hills	\$ 4,120.00	\$ 4,120.00	7/25/17	10/19/2017
County of Lake	\$ 25,000.00	\$ 25,000.00	7/27/17	10/19/2017
SMC	\$ 200.00	\$ 200.00	8/11/17	10/19/2017
Village of Round Lake Beach	\$ 512.00	\$ 512.00	8/11/17	10/19/2017
Village of Deerfield	\$ 231.00	\$ 231.00	8/25/17	10/19/2017
Village of Third Lake	\$ 602.00	\$ 602.00	9/1/17	10/19/2017
Village of Green Oaks	\$ 782.00	\$ 782.00	9/1/17	10/19/2017
Village of Long Grove	\$ 6,252.00	\$ 6,252.00	9/20/17	10/19/2017
Christopher Burke Engineering	\$ 200.00	\$ 200.00	9/26/17	10/19/2017
Wetlands Research Inc	\$ 200.00	\$ 200.00	9/29/17	10/19/2017
Vernon Hills Park District	\$ 200.00	\$ 200.00	10/1/2017	11/16/2017
Other Contributions Received				
319 Grant Des Plaines	\$ 47,500.00	\$ 47,500.00	11/1/2017	11/16/2017
Total Received:	\$249,437.00	\$249,437.00		
Total Received + Carryover	\$489,495.00	\$489,496.00		

Expenditures Paid:			Paid Date	DRWW Ratification	
Beth Adier #00005	\$ 1.650.00	\$ 1.650.00	1/31/2017	3/16/2017	
Beth Adler #00006	\$ 3,225.00	\$ 3,225.00	1/31/2017	3/16/2017	
MBI # 1404	\$ 13,884.37	\$ 13,884.37	1/31/2017	3/16/2017	
Suburban Labs #139691	\$ 20,536.00	\$ 20,536.00	2/16/2017	3/16/2017	
Suburban Labs #141341	\$ 9,649.00	\$ 9,649.00	2/16/2017	3/16/2017	
Burns & McDonnell #89796-3	\$ 653.60	\$ 653.60	2/16/2017	3/16/2017	
Burns & McDonnell #89796-5	\$ 1,280.15	\$ 1,280.15	2/16/2017	3/16/2017	
Geosyntec #18118856	\$ 2,820.00	\$ 2,820.00	2/16/2017	3/16/2017	
Beth Adler #000007	\$ 2,265.00	\$ 2,265.00	3/1/2017	3/16/2017	
Beth Adler #00008	\$ 2,350.00	\$ 2,350.00	3/1/2017	3/16/2017	
Beth Adler #00009	\$ 2,000.00	\$ 2,000.00	3/1/2017	3/16/2017	
				3/16/2017	
Beth Adler #00010	\$ 2,000.00	\$ 2,000.00	3/1/2017		
MBI # 1423	\$ 21,059.39	\$ 21,059.39	3/15/2017	3/16/2017 4/20/2017	
Beth Adler #00011	\$ 2,085.00	\$ 2,085.00	3/29/2017	4/20/2017	
Beth Adler #00012	\$ 2,000.00	\$ 2,000.00	3/29/2017		
Suburban Labs # 143190	\$ 400.00	\$ 400.00	4/7/2017	4/20/2017	
Burns & McDonnell #89796-6	\$ 9,046.10	\$ 9,046.10	4/10/2017	4/20/2017	-
Geosyntec #18117336	\$ 3,496.50	\$ 3,496.50	4/18/2017	6/15/2017	
Beth Adler #00013	\$ 3,050.00	\$ 3,050.00	4/27/2017	6/15/2017	
Beth Adler #00014	\$ 1,375.00	\$ 1,375.00	5/11/2017	6/15/2017	
MBI #1437	\$ 28,716.00	\$ 28,716.00	5/11/2017	6/15/2017	
Burns & McDonnell #89796-7	\$ 367.11	\$.367.11	5/11/2017	6/15/2017	
Burns & McDonnell #89796-8	5 4,417.23	\$ 4,417.23	5/11/2017	6/15/2017	
Suburban Labs # 144359	\$ 10,365.00	\$ 10,365.00	5/19/2017	6/15/2017	
Beth Adler #00015	\$ 2,075.00	\$ 2,075.00	5/23/2017	6/15/2017	
Beth Adler #0016	\$ 2,000.00	\$ 2,000.00	5/30/2017	6/15/2017	
Suburban Labs #145194	\$ 10,067.00	\$ 10,067.00	6/5/2017	6/15/2017	
Beth Adler #00017	\$ 2,025.00	\$ 2,025.00	7/6/2017	7/20/2017	
Beth Adler #00018	\$ 2,400.00	\$ 2,400.00	7/6/2017	7/20/2017	
Beth Adler #00019	\$ 2,075.00	\$ 2,075.00	7/18/2017	7/20/2017	
Burns & McDonnell #89796-9	\$ 2,244.52	\$ 2,244.52	7/25/2017	10/19/2017	
Beth Adler #00020	\$ 2,000.00	\$ 2,000.00	8/2/2017	10/19/2017	
Beth Adler #00021	\$ 1,700.00	\$ 1,700.00	8/15/2017	10/19/2017	
Burns & McDonnell #89796-10	\$ 7,502.61	\$ 7,502.61	8/15/2017	10/19/2017	
Suburban Labs #146504	\$ 10,067.00	\$ 10,067.00	8/15/2017	10/19/2017	
MBI #1452	\$ 23,525.96	\$ 23,525.96	8/25/2017	10/19/2017	
MBI #1471	\$ 23,140.57	\$ 23,140.57	8/25/2017	10/19/2017	
Beth Adler #00022	\$ 2,327.35	\$ 2,327.35	9/12/2017	10/19/2017	
Beth Adler #00023	\$ 1,975.00	\$ 1,975.00	9/25/2017	10/19/2017	
MBI #1478	\$ 23,452.42	\$ 23,452.42	9/27/2017	10/19/2017	
Beth Adler #00024	\$ 3,250.00	\$ 3,250.00	10/11/2017	10/19/2017	
Suburban Labs #148287	\$ 10,218.00	\$ 10,218.00	10/11/2017	10/19/2017	
Beth Adler #00025	\$ 1,850.00	\$ 1,850.00	10/26/2017	11/16/2017	
Suburban Labs #147312	\$ 10,201.00	\$ 10,201.00	10/26/2017	11/16/2017	
MBI #1486	\$ 7,652.45	\$ 7,652.45	11/9/2017	11/16/2017	
Beth Adler #00026	\$ 1,800.00	\$ 1,800.00	11/9/2017	11/16/2017	
MBI #1499	\$ 6,827.88	\$ 6,827.88	11/29/2017		
Beth Adler #00027	\$ 2,075.00	\$ 2,075.00	12/11/2017		
Beth Adler #00028	\$ 1,775.00	\$ 1,775.00	12/11/2017		
Beth Adler #00029	\$ 1.100.00	\$ 1,100.00	12/11/2017		
Suburban Labs #149626	\$ 934.00	\$ 934.00	12/13/2017		
Contraction of the second					
Total Expenditures Paid	\$314,951.21	\$314,951.21			
CHOOR PLANT	I				\$174,544.7

2018 Meeting Schedule

Recurrence	Regular Date/Time	Location	1/18/2018	1/25/2018	2/15/2018	3/15/2018	4/19/2018	4/26/2018	5/17/2018	6/21/2018	7/19/2018	7/26/2018	8/16/2018
Monthly	3rd	Lake County SMC Office 500 W. Winchester Rd.	1:00 PM			1:00 PM	1:00 PM			1:00 PM	1:00 PM		
Quarterly	4th Thurs 10:00 am	Lake County Health Dept 500 W. Winchester Rd, Libertyville, IL First Floor		10:00 AM				10:00 AM				10:00 AM	
Monthly	3rd Thurs 2:30 pm	Lake County SMC Office 500 W. Winchester Rd. Libertyville, IL. Second Floor	2:30 PM			2:30 PM	2:30 PM			2:30 PM	2:30 PM		
Quarterly/ No Monitoring, Exec Bd Mtg	3rd Thursday/ every 3 months 1:30 pm	Lake County SMC Office 500 W. Winchester Rd, Libertyville, IL Second Floor			1:30 PM				1:30 PM				1:30 PM
	Quarterly Monthly Quarterly/ No Monitoring,	RecurrenceDate/TimeRecurrence3rd Thursday at 1:00 pmMonthly4th Thurs 10:00 amQuarterly3rd Thurs 2:30 pmQuarterly/ No Monitoring,3rd Thursday/ every 3 months 1:30	RecurrenceDate/TimeLocationBardLake County SMC3rdOffice 500 W.ThursdayatLibertsville, IL. SecondMonthly1:00 pmFloorLake County HealthDept 500 W.Duarterly10:00 amFloorQuarterly10:00 amFloorAth ThursLibertsville, IL FirstDuarterly10:00 amFloorAth ThursLake County SMCOffice 500 W.Office 500 W.Xinchester Rd,Ninchester Rd,Bard ThursLibertsville, IL FirstAth ThursEake County SMCOffice 500 W.Ninchester Rd,Ath ThursLibertsville, IL SecondAth ThursSind ThursdayMonthly3rd ThursdayOffice 500 W.Noevery 3Winchester Rd,Monitoring,months 1:30Libertsville, IL Second	RecurrenceDate/TimeLocation1/18/2018BardLake County SMCOffice 500 W.Office 500 W.3rdThursday atLibertyville, IL. SecondLibertyville, IL. 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Proposed Project Description/Scope of Work

Watershed-Wide NOI/SMP with DRWW Providing 1 Annual Report to IEPA

The Des Plaines River Watershed Workgroup (DRWW) is proposing to prepare a Watershed-Wide (WW) Notice of Intent (NOI), Stormwater Management Program Plan (SMPP) and Annual Report to Illinois EPA on behalf of our MS4 members. The Watershed-Wide NOI/SMPP would contain additional BMPs above and beyond what is in the current NOI/SMPPs. The DRWW would provide one Annual Report for all MS4s opting for the Watershed-Wide NOI/SMPP.

DRWW's <u>Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries 2016</u> <u>Report</u> analyzed the monitoring data from 2015/2016 and found that the major causes associated with Aquatic Life Impairments are from: siltation (37.9%), Chlorides/Conductivity (23.3%), Habitat Related (16.1%), organic enrichment/DO/Nutrients (14.4%) and PAH/Manganese (8.3%). Sources included urban runoff, habitat alterations, altered hydrology, and wastewater treatment plant effluent. The DRWW believes that little progress can be made with individual NOI/SMPPs, but that one NOI/SMPP would be more likely to produce measurable results.

The DRWW Task Force proposes to present the idea of a watershed-wide NOI and SMPP for its MS4 members to the DRWW Executive Board. The Watershed-wide NOI/SMPP will contain BMPs that are recommended by The Des Plaines River Watershed Plan, results from modeling conducted by DRWW, and other reputable published sources of BMPs to address the major stressors identified in DRWW's Biological and Water Quality Assessment Report (2016).

If the DRWW Executive Board votes to approve this Proposed Project, the Task Force will present this Project Description/SOW to Illinois EPA and U.S EPA for their review and input.

If the EPA's agree this Project may have merit, the Task Force will present this Project Description/SOW to all MS4s in the DRWW service area, whether or not they are a current member of the DRWW via a gov.delivery document.

All MS4s will be invited to join a discussion of the pros and cons of this Project at an upcoming DRWW General Membership Meeting. MS4 members will have the opportunity to vote (non-binding) regarding whether they would be interested in participating in a Watershed-Wide NOI/SMP and Annual Reporting provided by the DRWW.

If enough MS4 members express interest in a Watershed-Wide NOI/SMPP, the Task Force will draft a watershed-wide NOI and distribute it to MS4 members for review and input. Upon receiving comments, the Task Force will revise the draft watershed-wide ("WW") NOI and resend the revised Draft WW NOI to the MS4 members for a second review. This revised Draft WW NOI will then be sent to Illinois EPA/U.S. EPA for their review and comment. Comments from the EPA's will be incorporated into the revised WW NOI and then sent to DRWW MS4 members for review. MS4 Members would be able to discuss the NOI and then vote at the upcoming DRWW General Membership meeting to approve the NOI.

If the NOI is approved, the Task Force will draft a Watershed-Wide Stormwater Management Program Plan (SMPP) and distribute it to MS4 members for review and input. Upon receiving comments, the Task Force will revise the draft Watershed-Wide ("WW") SMPP and resend the revised Draft WW SMPP to the MS4 members for a second review. This revised Draft WW SMPP will then be sent to Illinois EPA/U.S. EPA for their review and comment. Comments from the EPA's will be incorporated into the revised WW SMPP and then sent to DRWW MS4 members for review. MS4 Members would be able to discuss the SMPP and then vote at the upcoming DRWW General Membership meeting to approve the SMPP.

If the WW SMPP is approved, the DRWW and its MS4 members will request the Illinois EPA allow them a to adopt the watershed-wide NOI/SMPP. DRWW and its MS4 members will also request Illinois EPA allow one Annual Report be submitted on behalf of all the MS4 members who choose to participate in the watershed-wide NOI/SMPP.

Task	Due Date
Present this SOW to DRWW's Executive Board	Dec. 21, 2017
Present this SOW to IL EPA and U.S. EPA for their review and input	Dec. 21, 2017
Present this SOW to all MS4s in DRWW's service area	Via gov.delivery
Discuss this SOW with MS4 Members and Non-Members.	@ a DRWW General
Members will vote to proceed or delete this Project	Membership Meeting
Draft an NOI for all MS4 Members	TBD
Receive Comments on Draft NOI from all MS4 members	TBD
Send Draft-Final NOI to all MS4 Members	TBD
Submit Draft-Final NOI to IL EPA/U.S. EPA for review	TBD
Respond to IL EPA/U.S. EPA's Comments	TBD
Share Draft-Final NOI (with EPA's comments) with MS4 Members	TBD
Have MS4 Members vote to approve the NOI	TBD
Draft a Stormwater Management Program Plan (SMPP) for all MS4 Members	TBD
Receive Comments on Draft SMPP from all MS4 members	TBD
Send Draft-Final SMPP to all MS4 Members	TBD
Submit Draft-Final SMPP to IL EPA/U.S. EPA for review	TBD
Respond to IL EPA/U.S. EPA's Comments	TBD
Share Draft-Final SMPP (with EPA's comments) with MS4 Members	TBD
Have MS4 Members vote to approve the SMPP	TBD
DRWW Submits Annual Report for MS4s adopting Watershed- wide NOI/SMPP , including additional BMPs	TBD

*Final Watershed Plan should be released by September 2018

DRWW's Approach:

Step 1. Collect Data in the Watershed – water quality, sediment quality, biological, habitat, flow. Sampling locations were selected to provide an intensive pollution survey of the Watershed and to determine the existing status of the biological assemblages and their relationship to chemical, physical, and biological stressors.

Step 2. Midwest Biodiversity Institute (MBI) was contracted to determine:

- The aquatic life status of each sampling location in quantitative terms, i.e., not only if a waterbody is impaired, but the spatial extent and severity of the impairment and the respective departures from established criteria;
- The proximate stressors that correspond to observed impairments for the purpose of targeting appropriate management actions to those stressors; and
- Screen for any potential issues with use attainability.

Step 3. Complete modeling/statistical analysis on data. Most likely MBI's Integrated Prioritization System (IPS).

- IPS is an organized framework that merges high resolution monitoring data and assessment results with water quality management goals and objectives in order to better guide water quality decision-making.
- IPS produces a database that can be queried at the watershed, reach, and sitespecific scale.
- IPS produces rankings of restorability, susceptibility, and threat each of which is used to identify actions that have the highest return on investment.

Step 4. Select several water quality improvement projects with high restorability rankings to implement.

Step 5. Find funding sources to implement the selected projects.

Step 6. Implement Projects

Step 7. Through continued monitoring of the watershed, document improvements from project implementation.

2018 Des Plaines River Watershed Workgroup Annual Action Steps

Activity	Status/Deliverable	Lead(s) and Support
The Des Plaines River Watershed Workgroup (DRWW) will meet four times in 2018.	February, May, August, November	Beth, Executive Board
Implement 1/3 of the 70 sites from 2016 monitoring program (main stem sites) for bioassessment and sediment. Water Quality to be collected at 50 sites.	Revisions to plan will be complete by January EB meeting Sampling will occur 5 times in 2018	Beth, Joe, Monitoring Committee
Map significant contaminants of concern from the bioassessment	If Joe and Monitoring Committee thinks this would be beneficial.	Beth, Joe, Monitoring Committee, Jeff Laramie
Contracts New SL contract for 2018 New MBI contract for 2018-2019	Draft contracts presented to M/WQI and EB at January meeting	Beth, Joe, M/WQI Committee
Reports MBI final bioassessment report due Dec. 15, 2017 MBI draft report on data collected in 2017 due July 15, 2018 MBI final report on data collected in 2017 due Aug. 30, 2018	Dec. 15, 2017 July 15, 2018 Aug. 30, 2018	M/WQI, Lakes Committees and EB. Northwater
Agree on Criteria to decide which Water Quality Improvement Projects will be Prioritized Site-specific metrics Models QUAL2K US EPA's CADDIS (Yoder ran it for DRSCW) IPS (Yoder ran it for DRSCW) Turn data into projects via Statistical Techniques	IEPA has already been convinced the biology is a better indicator of WQ than pollutants, DO, etc. by DRSCW Stephen McCracken: Need to show a bullet-proof case to the EPA's to get these projects into permits. Need to show statistically that the project will result in improvement to the IBI. Asked for 2 permit cycles to be able to show through modeling that improvement was happening.	Monitoring/WQ Improvements Committee; EB Input from MBI
Lake Committee Complete WILMS modeling on 10 lakes Sampling program to calibrate WILMS Chlorides Policy ILMA POD – Lake Management Plans	WILMS is in process Sampling program will be planned by late spring with sampling to happen during summer 2018 Research and recommend a policy for adoption to the EB 2018	Mike Adam Lake Committee Beth Lake Committee, LCHD
DRWW Requests an extension to submit a NIP to IEPA	NIP is due April, 2019	Brian Dorn, EB
Task Force on how to add value to MS4/Industrial Members Draft Project Description/SOW Present Project Desc/SOW to DRWW EB	Complete Dec. 21, 2017	Beth Beth, Michael Talbett

Present Project Desc/SOW to IL and U.S. EPA for their review/input	January 2018	Task Force Task Force
Present Project Description/SOW to all MS4's in DRWW Service Area	Via gov.delivery and Annual Meeting on Feb. 15	
Discuss Project Desc/SOW at a DRWW GM Meeting.	TBD	
Members vote to proceed or not		
Draft Watershed-wide NOI	TBD	
Receive Comments on Draft NOI from MS4 members	TBD	
Send Revised NOI to MS4 Members	TBD	
Submit Draft-Final NOI to EPAs for review/comment	TBD	
Respond to EPA's comments	TBD	
Share Daft-Final NOI (with EPA's comments) with MS4	TBD	
Members		
Have MS4 members vote at a GM Meeting to approve NOI	TBD	
Draft Watershed-wide SMPP	TBD	
Receive Comments on Draft SMPP from MS4 members	TBD	1111
Send Revised SMPP to MS4 Members	TBD	
Submit Draft-Final SMPP to EPAs for review/comment	TBD	
Respond to EPA's comments	TBD	
Share Daft-Final SMPP (with EPA's comments) with MS4	TBD	
Viembers		
Have MS4 members vote at a GM Meeting to approve	TBD	
SMPP		
DRWW submits annual report for MS4 members who	TBD	
adopt the watershed-wide NOI/SMPP, including additional BMPs		
Annual De-Icing Workshop	DRWW Sponsor it and work with LCSMC to increase its value	LCSMC, LCHD, Beth, Task Force
Review monitoring data for each MS4 Member and provide assessment program to evaluate effectiveness of the BMPs being implemented to reduce pollutant loads.	Darren Olsen's Suggestion	Beth, Joe, Mike Adam, GIS Support
Evaluate if there is an opportunity to write projects into delayed NPDES Phase I permits	Trade projects for ammonia/BOD limits?	Beth, Joe, other POTW members

Provide Annual Green Infrastructure Training as required by MS4 permit	Late Winer, Early Spring, 2018	Beth, LCSMC, LCFPD
Invoices for Membership Dues Go Out/ Non-members receive Annual Accomplishments Report and an Invitation to Join	Spring, 2018	LCSMC, Beth, EB
DRWW outreach to local Agriculture	Invite NRCS or Farm Bureau (Jean Paine) to join/participate/meet with (??) DRWW	Monitoring/WQI Committee
Watershed Plan – Review Draft Watershed Plan Draft Report: March 2018 Final Report: September 2018	Chris Yoder wants to review the documents	Beth, EB, M/WQI and Lakes Committees
Communicate DRWW mission/goals to elected officials	Is there a forum for this?	EB, Beth

Possible Speakers for Annual Meeting

<u>CMAP – ON TO 2050 (the region's next comprehensive plan scheduled to be adopted</u> <u>Oct. 2018)</u>

ON TO 2050 will refine existing stormwater management policies. The <u>policies</u> in GO TO 2040 broadly covered the integration of stormwater management with development. CMAP intends to build an understanding of the region's greatest flooding mitigation needs and identify effective strategies for flood prevention and stormwater management in ON TO 2050, the next regional plan. ON TO 2050 will help communities select stormwater management approaches that align with community and regional goals of enhanced quality of life as well as environmental and economic sustainability.

https://www.youtube.com/watch?v=xR_Zoge3mW0

Debra Shore – MWRD Commissioner

- Talks about the importance of water and the history and future of water in the Chicago-land area. Thinking of water as a resource, not a waste.
- If you have never seen Debra speak here is an example of one of her presentations: <u>https://www.youtube.com/watch?v=n6t7JCUsdvk&t=3106s</u> (Debra speaks first after introductions)

Dr. Aaron Packman, Northwester University Civil/Environmental Engineering Dept.

Conducting Research into:

Fine Sediment and Colloidal Transport in Rivers

Contaminant Transport in Rivers

Stream Ecology and Biogeochemistry

Waterborne Disease Transmission

If you have never seen Aaron speak here is an example of one of his presentations: <u>https://www.youtube.com/watch?v=n6t7JCUsdvk&t=3106s</u> – Aaron speaks second, after Debra Shore.

May 2018 General Membership Meeting

- 1. Tour NSWRD's Wastewater Treatment Plant
- 2. Tour Watershed Plan 319 Grant Projects
 - a. Mundelein Park District Stabilization of 250 ft of eroded streambank, 2 check dams to stabilize a gully that drains to Bull Creek and 810 ft of riparian buffer (26'wide).
 - b. College of Lake County 2,150 ft of bioswales within and adjacent to parking lots 2,3,6,7 and 7A to filter runoff and remove suspended sediment, heavy metals, oil and grease, nutrients, and other pollutants as well as to reduce runoff volume and velocity and providing other beneficial hydrologic functions before draining into Willow Lake.
 - c. LCFPD stormwater BMPs at 4 sites to reduce non-point source pollution. 7.8 acres of grassed waterways, 4 rock check dams, 1 rock scour pool, 34 acres of conservation tillage, 2.6 acres of field border strips, and 30 ft of tile repair in North Mill Creek-Dutch Gap Canal subwatershed.

2017 Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries

Background

In 1969, the Cuyahoga River in Cleveland, Ohio was saturated with raw sewage, industrial waste, floating debris, and no sign of aquatic life. Sparks from a passing train set fire to the river for the 13th time, and when photos were published, concern erupted nationwide. In response, Congress passed the Clean Water Act (CWA) (1972) the primary objective of which is to restore and maintain the integrity of the nation's waters.

For many years, the focus of the CWA was on the chemical aspects of the water quality integrity goal. During the past three decades, however, more attention has been given to physical and biological integrity. As CWA programs have evolved over nearly 50 years, they have shifted approach, from program-by-program, to more holistic watershed-based strategies. These strategies are guided by holistic indicators, such as biological assemblages (varifying that all of the various species that exist in a particular habitat are present). Under this type of watershed approach, equal emphasis is placed on protecting healthy waters and restoring impaired ones. A full array of issues are addressed, not just those subject to CWA regulatory authority.

The DRWW hired three contractors to collect data on the health of the rivers and streams in the watershed, and by the end of 2016, they had collected the baseline data. On Aug. 31, 2017, DRWW received the draft report from one of DRWW's contractors. Midwest Biodiversity Institute, on the results of the baseline data. The draft report, "Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries 2016" is summarized below.

What is a Biological and Water Quality Survey?

A biological and water quality survey, or "bioassessment" consists of (1) a biological survey (how many and which species of fish, macroinvertebrates, insects, etc. live in the stream). (2) sampling for pollutants in water and sediment, and (3) an assessment of the quality of habitat the stream provides for the fish, invertebrates, and other organisms that need to live there in order for it to be healthy.

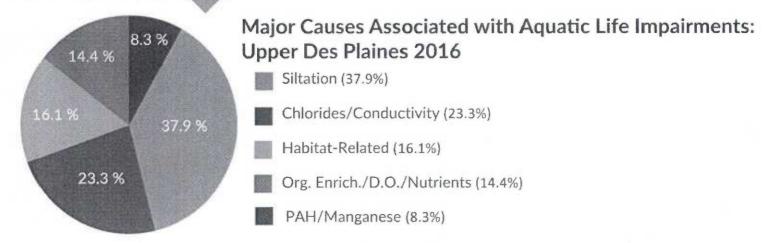
The goal of the biological and water quality survey is to document; pollutants in the water and sediments, the amount of habitat the stream provides, the amount of life in the stream, and the major stressors that affect the health of the stream. This data is compared to the Illinois Water Quality Standards, specifically the Aquatic Life Use Standard, to determine if the sampling location meets the standards or, if it doesn't, it is labeled "non-supporting" or "partially supporting."

Of the 69 sites assessed:

0 were fully supporting (met all standards) 22 were non-supporting-fair 26 were non-supporting-poor

21 were partially supporting

The main reason why most of the non supporting and all of the partially supporting sites did not meet the standards was due to a lack of diversityin fish species found.



Causes

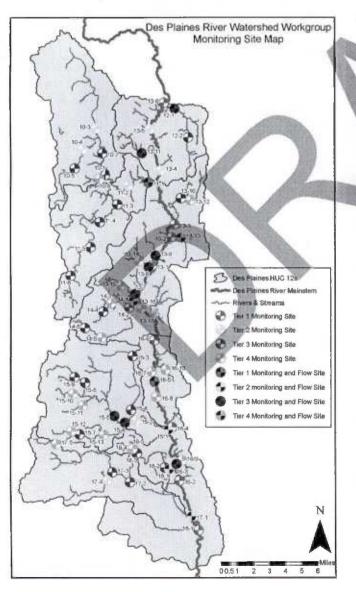
The reasons the standard was not met, or the major causes for non-support, were identified based on lines of evidence and professional judgment.

- Siltation* reduces spawning and feeding habitat for fish
- Chlorides* are harmful to many animals living in rivers and streams
- Habitat-Related (refers to things like: no riparian zone, bank erosion, channel modification)
- Organic Enrichment/Dissolved Oxygen/Nutrients create low oxygen levels that some fish cannot tolerate or large fluctuations of oxygen in the water between day and nighttime, which is stressful on fish
- PAH/Manganese are pollutants

*Siltation and Chlorides were pervasive (found at almost all sampling sites).

Sources of the Causes

- 1. Urban runoff (sediments, nutrients, pollutants, streambank erosion)
- 2. Habitat alterations (straightening streams, dams, etc.)
- 3. Altered hydrology (rainwater not soaking into the ground, loss of native ecosystems such as wetlands)
- 4. Wastewater Treatment Plant discharge (nutrients, pollutants)



Conclusions

The problems most commonly found across all the 69 sites sampled were: (1) heavy siltation caused by habitat alterations and altered hydrology from urban and suburban stormwater runoff and (2) high levels of chlorides from road salting.

Recreational Use

The recreational use in and on the waters in the watershed were evaluated based on amount of E. Coli bacteria found in samples. Many samples had higher levels of E. Coli then recommended by the U.S. EPA. Wastewater treatment plant discharge and stormwater runoff from urban and agricultural land are the possible sources of the high levels.

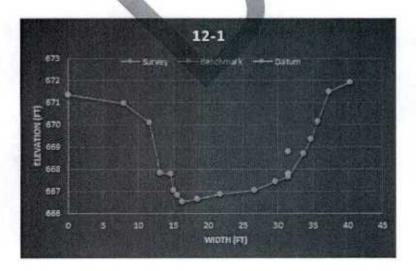
Questions?

If you have questions or would like more informtion, please contact Beth Adler, the DRWW Technical Coodinator at 847-377-7702 or badler@lakecountyil.gov

2017 Summary of: Des Plaines River Watershed Flow Monitoring Project

One of DRWW's contractors, Burns & McDonnell Engineering Company, Inc. (B&M), installed a flow monitoring network of 15 in-stream stage data loggers in late 2016 and collected data from the data loggers in 2017 to estimate flow in the Main Branch of the Des Plaines River and its tributaries. Data from six existing U.S. Geological Survey (USGS) data loggers were also used, equaling 21 locations overall. Flow data helps estimate pollutant loads and track water quality and biological community trends.

Field measurements were taken six times at the 15 locations to confirm that the data collected by the loggers reflected actual field conditions.



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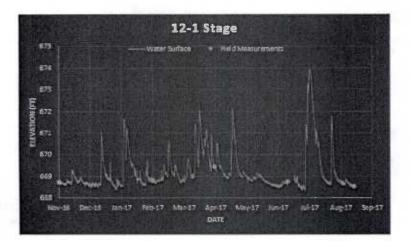
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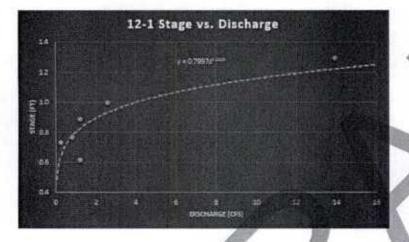
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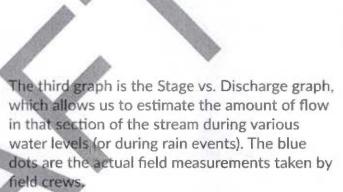
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All of this data was used to create three graphs for each of the 15 locations. The first graph illustrates the x-section of the stream where the data logger was installed.



The second graph shows the elevation of water in the stream over time. The red dots are where the actual measurements were taken by field crews.





The proposed monitoring locations were chosen based on a qualitative review of the current DRWW stream monitoring network within the watershed. Sites were chosen based on position in the watershed, proximity to existing gauge stations, proximity to existing water quality sampling locations, and relative contribution of flow from subwatersheds. The study was intended to establish a baseline of monitoring locations and begin to develop reliable stage-discharge relationships that can be used to estimate pollutant loads within the watershed. Pollutant loads are calculated as the product of stream discharge and the concentration of a pollutant in water. Loads can be calculated as an instantaneous value or summed to provide an annual load. Understanding the relative magnitude and timing of pollutant loads across subwatersheds is a powerful tool for prioritizing water quality improvement projects and determining where to allocate scarce resources.

All of the Stage vs. Discharge graphs can be located on DRWW's website, at www.DRWW.org. Once there, click on the "Maps & Photos" tab, select "Maps," and then click "Lake County Impaired Waters Web Map (WebApp)." The flow monitoring locations are identified by rain clouds, just click a cloud to view the map - you may have to scroll down on the dialog box to see the map. If you have any questions, feel free to contact Beth Adler, the DRWW Technical Coordinator, at 847-377-7702 or Badler@lakecountyil.gov.