

Des Plaines River Watershed Workgroup

Monitoring Committee – Working Meeting

1/12/2017

1:00 -2:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Public Comment
4. Conference call with Chris Yoder of MBI to discuss:
 - 3 Subwatershed-based Sampling Areas to be sampled over next 3 years
 - 25 (approx.) sampling sites within the sampling area for 2017
 - Reporting – Can we get data before we report on March 31, 2017? Final Report by October 15, 2017?
5. Suburban Labs Contract
 - 6 additional Tier 3 sites
 - Update from Mike Adam regarding data formatting
6. Agenda for Monitoring Committee Meeting on 1/19/16
7. Old Business
8. Other Business
9. Next Monitoring Committee Meeting January 19, 2017
10. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

1/19/2017

1:00 -2:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes
4. Public Comment
5. Monitoring Program Review and Update
6. Winter chloride data – Proposal from USGS
7. Burns & McDonnell contract extension
8. Suburban Labs Contract
9. Data management for reporting to IEPA
10. Demo of Impaired Waters and DRWW Monitoring Sites Interactive Map
11. Old Business
12. Other Business
13. Next Monitoring Committee Meeting March 16, 2017
14. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

3/16/2017

1:00 -2:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (1/19/17)
4. Public Comment
5. Monitoring Program Review and Update
6. Flow Monitoring Flow Monitoring
7. Suburban Labs Contract Mapping – Jeff Laramie updated the sampling site map to color code each location depending on whether the site is Tier 1,2,3 or 4.
8. Mapping – Jeff Laramie updated DRWW Sampling site map
9. Watershed Plan Update
10. Biological Criteria for Meeting Aquatic Life Uses (Jim Bland)
11. Old Business
12. Other
13. Next Monitoring Committee Meeting April 20, 2017
14. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

1/19/2017

1:00PM – 2:30PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order.
2. Roll Call (see end of these notes for individuals present)
3. Approve Previous Meeting minutes: Steve Vella made a motion to approve the minutes from 12/15, Mike Adam seconded the motion. The motion passed unanimously.
4. Public Comment: None.
5. Monitoring Program Review and Update – Joe Robinson led the update and had prepared a handout with 3 sampling programs and estimated costs. To get more chloride data Joe proposed to move some of the sampling into winter months. He also suggests we remove some of the contaminants that are non-detect from the list to save money on analysis. Option 1 that Joe put together had a cost of \$83,000, this is above our budget. Option 2 came in at \$77,392 and Option 3 at \$68,096. Cost of sediment sampling and analysis is not included in these costs, nor is the cost of duplicates or blanks. Joe recommended Option 3 for the next 3 years since it is closest to our budget of \$65,000/yr. Patty noted that the Monitoring Strategy will need to be updated based on this new monitoring plan. Then there was discussion about the confidence level of the group with the data Suburban Labs is providing – Mike A has reviewed some of the data and conductance appears not to be correct – the field collected data is where the problems seem to be. Providing some field oversight and/or re-bidding the contract when this contract is complete were considered.
6. Winter Chloride Data – Proposal from USGS. Unfortunately the extra monitoring is outside of the budget at this time. The proposal will be kept in case funds become available in the future. Joe R said he moved the Nov. and March sampling events to December and February so we can get more chloride data.
7. Burns and McDonnell (B&M) Contract Extension – The proposal for 4 more data downloads and water level measurements and a final report came in at a similar price to the previous proposal. There was discussion about how B&M has \$18,445 from their first contract that they have not billed DRWW for yet. Beth offered to talk to B&M to find out if some of that money is incorporated into the second contract price. There was a motion to recommend to the Executive Board to approve the contract extension with stipulations by Steve Vella. Mike A seconded the motion. Motion passed unanimously.
8. Suburban Labs (SL) Contract – This was discussed under item #5 Monitoring Program Review and Update.

9. Staffing for Data Management for Reporting to IEPA – Mike A reported he was able to compile all the Suburban Labs data pretty easily into an EXCEL spreadsheet. He also used ACCESS which allows a user to query the data. Joe asked if this could be given to all on the committee. Mike A responded that he still needed to clean it up a little, but should have something to distribute by the end of the month.
10. Demo of Impaired Waters and DRWW Monitoring Sites Map – Mike W began by saying that the SMC GIS team, Neil and Jeff, and Mike Adam have gone through the sampling location data and IEPA data to create this map – it was a large effort and a big accomplishment! There was discussion about linking data to sampling locations on the map. Everyone liked the idea of the data being password protected for members only.
11. Old Business: None
12. New Business: None
13. Next Monitoring Committee Meeting will be March 16, 2017.
14. Adjourn: Mike Adam made a motion to adjourn, seconded by Steve Vella. The motion passed unanimously.

Committee Members Present:

Mike Adam, Lake County Health Department

Al Giertych, LCDOT

Joe Robinson, North Shore Water Reclamation District

Leslie Berns, LCFPD

Steve Vella, Village of Libertyville

Others Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, Lake County Stormwater Management Commission

Patty Werner, Lake County Stormwater Management Commission

Tom Morthorst, Village of Third Lake

Rob Flood, North Shore WRD

Bryan Beitzel, Village of Buffalo Grove

Brian Dorn, North Shore WRD

Neil Schindlar, LCSMC



Des Plaines River Watershed Workgroup

Monitoring Committee

4/20/2017 1:00 -2:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (3/16/17)
4. Public Comment
5. Monitoring Program Review and Update
6. Flow Monitoring
7. Suburban Labs
8. Meeting with DuPage River Salt Creek Watershed Workgroup (DRSCW)
9. Watershed Plan
10. May General Membership Meeting Agenda (Canoeing)
11. Old Business
12. Other Business
13. Next Monitoring Committee Meeting June 15, 2017
14. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

3/16/2017

1:00PM – 2:30PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order.
2. Roll Call (see end of these notes for individuals present)
3. Approve Previous Meeting minutes: Al Giertych made a motion to approve the minutes from 1/19/17, Jim Bland seconded the motion. The motion passed unanimously.
4. Public Comment: Kathy Paap stated that Wetlands Research, Inc. is requesting 2 more sampling points. Joe R. responded that the new contract with Suburban Labs will begin in June, and before that he is going to review the data and make changes to some of the parameters and sampling locations. These proposed changes will be discussed at the next Monitoring Committee meeting.
5. Monitoring Program Review and Update – Joe Robinson led the update. He reported that Mike Adam is recommending not to re-bid the Suburban Labs (SL) contract, to just extend the contract we currently have with them. Joe agrees. SL is more responsive now. The chloride probe problem has been fixed. The detection levels for metals is higher than it was in 2015, which may make this data unusable. Jim Bland requested that Joe share emails from DRWW to SL regarding the metals detection limits and other problems we have had with the data. Joe said DRWW will pursue a credit from SL for unusable data. Jim Bland said he would check to find out if aquatic life criteria have detection limits. He also requested a meeting with Joe and Mike A to review data sets.

Joe reviewed a map he put together of sediment results where there are high PAH and metals. MBI is still working on the macroinvertebrate data.

Joe R. handed out the Annual Report for the permit required (POTW/MS4) data reporting. This will be submitted to IEPA by March 31. MS4's need to report by June 1 and will state in their report to IEPA that the data was submitted in the March 31 Annual Report. Joe asked the committee to approve the Annual Report. Jim Bland made a motion to approve, Al Giertych seconded. Joe said he would present the Annual Report to the DRWW Executive Committee for their comments/consensus.

Mike Prusila of LKSMC reported that he is working on the Water Quality chapter of the Watershed Plan. He has gathered historical data from the last 20 years and is looking for trends in the data. He has data from Northshore, IEPA and IDNR and the 2015/2016 DRWW data. Jim

Bland asked that he include data from a multi-agency study that Tom Slawski was involved with. Mike P has that data already.

Joe R. reported that he would like to do some continuous monitoring for DO/chloride at 4 or so locations in the watershed with Northshore and LCHD Datasondes .

Steve Vella noted that all the POTWs in the watershed except for Northshore are supposed to have a Nutrient Implementation Plan (NIP).

6. Flow Monitoring - Jim Bland reported that he was in the field with Burns & McDonnell the last week of March and was impressed with their work.
7. Suburban Labs Contract Mapping – Jeff Laramie (LKSMC) updated the DRWW sampling site map to color code each location depending on its Tier level (1,2,3 or 4).
8. Mapping – same as #7 above.
9. Watershed Plan Update – Mike Prusila (LKSMC) reported in #5 above that he is gathering and analyzing historical watershed data for the Watershed Plan. 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 General Membership meetings could be joint meetings.
10. Biological Criteria for Meeting Aquatic Life Uses – Jim Bland reported that Tom Slawski’s work shows an IBI gradient across the watershed. He suggested that MBI should identify what “order” the stream is because it affects how the IBI is calculated. IEPA considers 41 to be an acceptable IBI number for a stream stretch. Jim thinks this number may not be scientifically valid and may need to be challenged. Jim feels the water quality criteria needs to be reviewed. Jim also suggested that we have Chris Yoder come in and talk to the Committee about these issues. Jim agreed to write up his concerns for the April meeting. Joe R. asked him to get it to the Committee a week before the meeting for review.
11. Old Business.
12. Other Business – the ILMA Conference is coming up.
13. Next Monitoring Committee Meeting will be April 20, 2017.
14. Adjourn: Al Giertych made a motion to adjourn, seconded by Jim Bland. The motion passed unanimously.

Committee Members Present:

Al Giertych, LCDOT

Joe Robinson, North Shore Water Reclamation District

Leslie Berns, LCFPD

Steve Vella, Village of Libertyville

Jim Bland, Sierra Club

Others Attendees:

Beth Adler, DRWW Technical Coordinator

Mike Warner, , Lake County Stormwater Management Commission

Mike Prusila, Lake County Stormwater Management Commission

Tom Morthorst, Village of Third Lake

Rob Flood, North Shore WRD

Brian Dorn, North Shore WRD

Don Hey, Wetlands Research, Inc

Kathy Paap, Wetlands Research, Inc.

Ernesto Huaracha, Lake County Stormwater Management Commission

Leonard Dane, Deuchler Environmental



Des Plaines River Watershed Workgroup

Monitoring Committee

6/15/2017 1:00 -2:30 PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (4/20/17)
4. Public Comment
5. Monitoring Program Review and Update
6. Flow Monitoring
7. Suburban Labs Contract
8. MBI Contract
9. Old Business
10. Other Business
11. Next Monitoring Committee Meeting July 20, 2017
12. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

4/20/2017

1:00PM – 2:30PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order.
2. Roll Call (see end of these notes for individuals present)
3. Approve Previous Meeting minutes: Mike Adam made a motion to approve the minutes from 3/16/17, Al Giertych seconded the motion. The motion passed unanimously.
4. Public Comment: None.
5. Monitoring Program Review and Update – Joe Robinson led the update. He handed out a table that he created showing sampling locations that had greater than a non-detect for chloroform, copper, fluoranthene (PAH), iron, manganese, mercury and phenanthrene (PAH). Joe noted there were no hotspots. The lower main stem had 3 exceedances of chloroform, which Joe said could be from a POTW using chlorine to disinfect. He also noted 2 sampling locations in the upper main stem that exceeded for Iron and Manganese, he thinks these metals are coming into our Watershed from Wisconsin. Although there were 10 locations where mercury was above the detection limit, Joe felt the levels were low. There were only 2 hits of PAHs. Joe stated that if the monitoring is to be used for MS4 permit compliance it would need to include all impairments (PCB, etc.) that we were hoping to stop sampling for. Joe noted that DO is listed as an impairment for Indian Creek, Mill Creek and Buffalo Creek, which has a TMDL for DO. He recommends leaving DO/pH on Suburban Labs' ("SL") list of items to monitor for. He also recommended taking VOCs off the list of parameters to sample for in sediment in order to save money.

Sampling Location Changes. Joe would like to add a Tier 4 site above the riffle @ Don Hey's wetland, so DRWW can evaluate if the riffle acts like a dam (DO sag). Joe asked Kathy Paap if Wetlands Research Inc. (WRI) would allow DRWW access to the property, she agreed. Kathy said WRI would like an existing monitoring location on Seavey Ditch to be moved south to where their pilot project in Sullivan Woods would begin. WRI would like to know what is coming off the Golf Course. Joe asked Kathy to send an email setting out exactly what they want for DRWW's consideration.

Suburban Labs (SL). There are 3 issues we need to resolve. The conductivity data does not correlate well with the chloride data, the metals detection limits were increased without DRWW's consent and the reporting format of the data. Joe estimates there is approximately \$1,000 worth of data that is unusable. Mike Adam reported that SL had told him that the

conductivity probe was not correcting for temperature changes and they are going to try to correct the conductivity data. Report format is the third – need all the info to populate the IEPA's EDD format.

Summary of Changes to Monitoring Program:

- a. Add 1 Tier 4 site (biology only) upstream of Don Hey's Riffle
- b. Consider changing location on Seavey Ditch per Kathy Paaps request
- c. Do not analyze for VOCs in sediments.

Proposed 2017 Monitoring Costs for WQ and Sediment: Joe handed out a table summarizing his estimate of cost for extending the SL contract through 2017. He is estimating \$49,218 for WQ sample collection and analysis and \$12,838 for sediment analysis.

Chris Yoder's Proposal for Continuous Datasonde Monitoring of DO, pH, Temperature and Conductivity: Mike Adam reported that the LCHD's 2 datasondes would need to be refurbished at a cost of \$2,000 each and they do not have the budget to do this nor budget to send LCHD staff out to install the datasondes, collect the data, etc. Joe suggested we get a price quote from Chris Yoder for this work. We need to know who will be the manpower? How many locations? How many datasondes? How long will they be left in one location?

Beth A. reported that the Monitoring Strategy was updated and submitted to IEPA for Watershed Plan 319 Grant Reporting with data in the EFF format.

6. Flow Monitoring - Jim B. asked how MBI will use DRWW's flow data? Beth had a conversation with Chris Yoder of MBI and he told her that he will use the flow data but it is weak since there are not many locations. Chris also believes that habitat will be the #1 stressor in our Watershed. Jim B. also brought up the fact that a single use IBI number is not practicable for highly urbanized areas. IEPA only uses one number regardless of how urbanized the area is. DRWW could fight IEPA on this issue, but it would take us off task and may be better to stay on track.
7. Suburban Labs Contract – already discussed under number 5 above.
8. Meeting with DuPage River Salt Creek Watershed Workgroup (DRSCW). Patty Werner typed up her notes from the meeting. She summarized her 3 take-aways from the meeting: (1) DRSCW feels Chris Yoder (M BI) is doing good work and modeling for them; (2) NIP should be a documentation of where we are now and where we are going; (3) DRSCW invited DRWW to collaborate with them in their next round of modeling with MBI to save costs.
9. Watershed Plan Update – Mike Prusila (LCSMC) reported that the Watershed Plan contractor, Northwater is willing to meet with Mike Adam and Joe Robinson to answer any questions they have. Northwater plans to create load-duration curves from USGS sampling sites for Phosphorus (P), Nitrogen (N), Chloride (Cl), bacteria and maybe Copper (Cu) and Zinc (Zn). These load-duration curves will be used to calibrate the Non-point source (NPS) model (SWAMM) because DRWW does not have enough flow data to create the curves.
10. May General Membership Meeting will be a canoe trip down the Des Plaines River.
11. Old Business.
12. Other Business – Welcome Jeanette Burger of the Sierra Club.
13. Next Monitoring Committee Meeting will be June 15, 2017.
14. Adjourn: Mike Adam made a motion to adjourn, seconded by Steve Vella. The motion passed unanimously.

Committee Members Present:

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

Al Giertych, DRWW Vice President, Lake County DOT

Leslie Burns (alternte for Jim Anderson), DRWW Member at Large, Lake County Forest Preserve District

Steve Vella, Village of Libertyville

Jim Bland, Sierra Club

Mike Adam, LCHD

Austin McFarland, LCPW

Others Attendees:

Brian Dorn, DRWW President, NSWRD

Beth Adler, DRWW Technical Coordinator

Mike Prusila, Lake County Stormwater Management Commission

Rob Flood, North Shore WRD

Kathy Paap, Wetlands Research, Inc.

Patty Werner, Lake County SMC

Jeanette Burger, Sierra Club



Des Plaines River Watershed Workgroup

Joint Monitoring/WQ Improvements Committee and Lakes Committee Meeting

9/28/2017 9:30 – 11:00 am

Lake County Department of Transportation Conference Room

600 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (6/15/17)
4. Public Comment
5. MBI Draft Report
6. Flow Monitoring Final Report
7. Zebra Mussel Influence in Mill Creek
8. Monitoring Program Update
9. Old Business
10. Other Business
11. Next Monitoring Committee Meeting October 19, 2017
12. Adjourn



Des Plaines River Watershed Workgroup

Monitoring Committee

6/15/2017

1:00PM – 2:30PM

Lake County Central Permit Facility

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order.
2. Roll Call (see end of these notes for individuals present)
3. Approve Previous Meeting minutes: Steve Vella made a motion to approve the minutes from 4/20/17, Jim Bland seconded the motion. The motion passed unanimously.
4. Public Comment. Joe asked Jim Bland to share a few items he had requested be placed on the agenda but were not at this point in the meeting. Jim Bland shared that he believes the DRWW monitoring program needs to change to collect the right data for load allocations for lakes. Weekly data collection along with flow monitoring is what would be needed. Joe R. said he had spoken with Mike Adam about this and the DRWW Lakes Committee would address this issue. Jim Bland's second item was a request that whoever is awarded the contract to do statistical analysis for the DRWW give the monitoring committee a tutorial about which statistical techniques he will use and why. Everyone agreed this would be a good idea. Jim Bland's third item was a comment about the DRWW data, which Jim has not seen yet. The data will be presented at the August 17 General Membership meeting by Chris Yoder and Mike Pruscila and flow data will be presented by Burns and McDonnell.
5. Monitoring Program Review and Update – Joe Robinson led the update. Added 1 Tier 4 site (biology only) upstream of Don Hey's Riffle (site 13-18) and moved site 15-8 300 feet south to accommodate Kathy Paaps request. VOC's were removed from sediment sampling. There will be 71 sites in 2017, 50 sampled for water quality. Continuous monitoring with datasondes at 14 locations this summer was added and 14 Chlorophyll-a samples.
6. Flow Monitoring – Joe R. reported that Burns & McDonnell (B&M) have taken 3 of 6 measurements so far, one at high flow. B&M plan to take another measurement in June.
7. Suburban Labs Contract – Joe R. led the update. Contract covers 50 sites to be sampled and analyzed for water quality and 12 sediment samples for analysis for \$59,142. Joe reported that DRWW met with SL and discussed the quality of their conductivity readings. SL was also running lab conductivity that had a much better correlation, so they are giving that data to DRWW. There was one month when the lab did not run conductivity, so SL has agreed to reimburse DRWW for that months data. The high metals detection limits were also discussed. SL said they were reporting to DRWW at higher limits, but the machine they were using was getting lower levels, SL said they would check to see if they could report the results to us at lower limits

– DRWW has not heard back from them on this item yet. There was some discussion and then Joe asked if the committee wanted to send the contract extension to the DRWW Executive Board for execution? Jim Bland made the motion, Steve Vella seconded. Motion passed unanimously.

8. MBI Contract Extension – The extension covers 18 sites for fish, macros, habitat and 12 for sediment collection and 14 for datasonde deployment and 14 chlorophyll-a collection for a cost of \$78,000. There was some discussion then Jim Bland made a motion to send the contract to the DRWW Executive Board for execution, Alana Bartolai seconded. Motion passed unanimously.
9. Old Business – Nutrient Roundtable
10. Other Business – Welcome Jeanette Burger of the Sierra Club.
11. Next Monitoring Committee Meeting will be July 20, 2017.
12. Adjourn: Jim Bland made a motion to adjourn, seconded by Steve Vella. The motion passed unanimously.

Committee Members Present:

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

Steve Vella, Village of Libertyville

Jim Bland, Sierra Club

Alana Bartolai for Mike Adam, LCHD

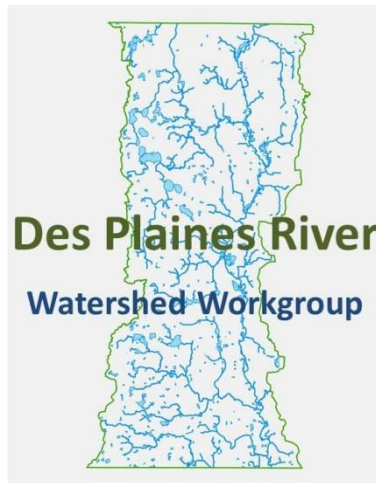
Others Attendees:

Beth Adler, DRWW Technical Coordinator

Rob Flood, North Shore WRD

Jeanette Burger, Sierra Club

Mike Warner, LCSMC



Des Plaines River Watershed Workgroup

Monitoring/WQ Improvements Committee Meeting

10/19/2017 1:00 – 2:30 pm

Lake County Stormwater Management Commission Medium Conference Room

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (9/28/17)
4. Public Comment
5. Burns and McDonnell
6. 2018 Laboratory Contract
7. Monitoring Program
8. Old Business
9. Other Business
10. Next Monitoring Committee Meeting December 21, 2017 at LCSMC
11. Adjourn



Des Plaines River Watershed Workgroup

Joint Monitoring/WQ Improvements and Lakes Committees

9/28/2017

9:30PM – 11:00AM

Lake County Department of Transportation Conference Room

600 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order.
2. Roll Call (see end of these notes for individuals present)
3. Approve Previous Meeting minutes: Leslie Berns made a motion to approve the minutes from 6/15/17, Steve Vella seconded the motion. The motion passed unanimously.
4. Public Comment: Mike Prusila, LCSMC, shared that the Watershed Plan contractor, Northwater, is identifying critical stream reaches and would like feedback on how to identify critical reaches.
5. MBI Draft Report: There was discussion that some members needed more time to review the report. It was agreed all comments should be send to Beth Adler by Oct. 9 so she can organize them into Minor Edits and Need Discussion categories. Then we can decide if we would like to have a WebEx with Chris Yoder for the Need Discussion items. Joe stated there would be no additional data collection to finalize this report. Jim Bland led the committee through a review of some of his comments. Mike Prusila also had submitted some comments. Beth said she would email everyone that if they wanted to submit comments they would have until Oct. 9. There was some discussion about how to address the results of the report – roll out a Chlorides Policy at the November General Membership meeting was suggested. The DRSCW has a Chlorides Policy. It would help our MS4 members defend themselves legally. The Committee agreed that at the next General Membership meeting the MBI report should be summarized in a document similar to the Accomplishments Report in 2016.
6. Flow Monitoring Draft Report: The one main comment was that the graphs were not part of the report. They were submitted under separate cover with the actual data. Beth and Mike Adam will work together to get the graphs to all the Committee Members. Beth will also work with the LCSMC GIS folks to get the graphs added to the Interactive Lake County Map. There was discussion about what to do with the baraloggers, to leave them in place and continue to collect data and manual measurements with interns or in-house staff? There was no clear resolution.
7. Zebra Mussel influence in Mill Creek – Jim Bland led the discussion and showed a photo of mussels on a plate that was anchored in Mill Creek. Jim suggested that the DRWW install anchored plates at select locations downgradient of where there is a suspected zebra mussel problem. The plates will give us an indication of how bad the infestation is.
8. Monitoring Program Update – Joe Robinson said he wants the committee to re-look at the entire monitoring program and decide how we want to proceed. Everything is on the table. As

we are out of time, we will discuss it further at the next Monitoring/WQ Improvements Committee Meeting and the Lakes Committee will also discuss this at their next meeting.

9. Old Business – None
10. Other Business – None
11. Next Monitoring Committee Meeting will be Oct. 19, 2017 at LCSMC Large Conference Room.
12. Adjourn: Steve Vella made a motion to adjourn, seconded by Mike Adam. The motion passed unanimously.

Committee Members Present:

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

Steve Vella, Village of Libertyville

Jim Bland, Sierra Club

Mike Adam, LCHD

Mike Zemaitis for Al Giertych, LCDOT

Rob Flood, NSWRD

Tom Morthorst, Third Lake

Others Attendees:

Beth Adler, DRWW Technical Coordinator

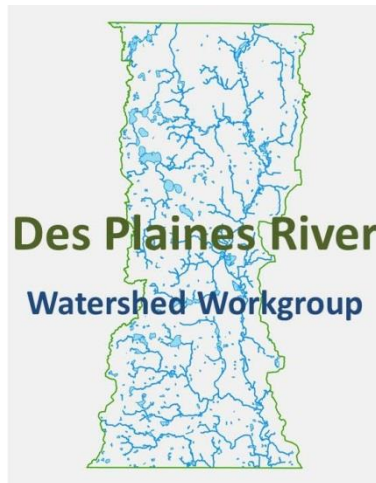
Mike Warner, LCSMC

Leslie Berns, LCFPD

Donald Hey, WRI

Kathleen Paap, WRI

Brian Dorn, NSWRD



Des Plaines River Watershed Workgroup

Monitoring/WQ Improvements Committee Meeting

12/21/2017 1:00 – 2:30 pm

Lake County Stormwater Management Commission Medium Conference Room

500 W. Winchester Road, Libertyville IL 60048

Agenda

1. Call the meeting to order
2. Roll Call
3. Approve Previous Meeting minutes (10/19/17)
4. Public Comment
5. Continuous Monitoring Program
6. Finalize 2018 Laboratory Contract
7. Membership Dues for 2018
8. Annual Monitoring Report
9. Chlorides Policy/Fact Sheets
10. Old Business
11. Other Business
12. Next Monitoring Committee Meeting December 21, 2017 at LCSMC
13. Adjourn



Des Plaines River Watershed Workgroup
Joint Monitoring/WQ Improvements and Lakes Committees

10/19/2017

1:00 PM – 2:30 PM

Lake County Stormwater Management Commission, Second Floor

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order
2. Roll Call (see end of these notes for individuals present)
3. Approve previous Meeting minutes:
 - a. A few corrections: time of meeting was incorrect. Tom Morthorst and Rob Flood were listed as committee members and Leslie was listed as other attendees, need to switch. Mike Adam made motion to approve 9/28/17 minutes with changes mentioned by Joe, Leslie seconded the motion, all in favor.
4. Public Comment: None
5. Burns & McDonnell Report: only took 6/7 readings. It is stated in the contract that they will do 7 data points. The Committee recommended that Burns and McDonnell conduct the 7th flow monitoring event as required by the 2017 contract.
 - a. 15 loggers will remain in creek at the sites, LCHD can download flow data and has flow meter.
6. 2018 Laboratory Contract
 - a. Suburban Labs contract ended in September. Mike Adam showed that there is now a good relationship between chloride and field conductivity. Still waiting to hear from SL labs on the sediment metals detection limits. Monitoring program will plan to go ahead with Suburban Labs in 2018.
7. Monitoring Program
 - a. Joe used Suburban Lab price quotes from previous years to estimate 2018 DRWW costs. Goal is to cut the monitoring costs and there are different options to reach that goal (refer to handout).
 - b. The most likely option will be reducing monitoring from 7 to 5 sample times throughout the year and removing some parameters that were not getting major hits. Want to keep all parameters that are required for MS4 permits.
 - i. remove DO/temp
 - ii. could remove turbidity (no MS4 requirement)
 - iii. Check if low level mercury is a ms4 requirement.

Joe R will send out updated version, thinks we can get it down from \$69,000/yr to \$50,000/year. These changes to the monitoring program will be finalized at the December Monitoring meeting.
8. Old Business: None
9. Other Business

- a. (Mike Adam) Chloride Monitoring – LCHD/SMC summarized average chloride readings up to July 2018 and whether MBI listed chloride as an impairment. Need more winter monitoring at these sites. LCHD has some sondes, North shore has some sondes, LCHD can buy a few sensors. Would like to add some additional winter monitoring.
- b. Would want to put sondes in the next month.

10. Next Monitoring Committee Meeting **December 21, 2017** at LCSMC

11. Adjourn: Jim Bland motion to adjourn, Leslie Berns seconded the motion.

Committee Members Present

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

Jim Bland, Sierra Club

Mike Adam, LCHD

Leslie Berns, LCFPD

Mike Zemaitis for Al Giertych, LCDOT

Austin McFarlane (LCPW)

Other attendees:

Rob Flood, NSWRD

Kathleen Paap, WRI

Donald Hey, WRI

Tom Morthorst, Third Lake

Alana Bartolai, LCHD

Ed Coggin, Weston



Des Plaines River Watershed Workgroup
Joint Monitoring/WQ Improvements and Lakes Committees

12/21/2017

1:00 PM – 2:30 PM

Lake County Stormwater Management Commission, Second Floor

500 W. Winchester Road, Libertyville IL 60048

Meeting Minutes

1. Call the meeting to order: Joe Robinson called the meeting to order
2. Roll Call (Joe Robinson, Mike Adam, Al Giertych, Austin McFarlane, Steve Vella present. Jim Anderson arrived at 2:00 pm; Jim Bland was not present)
3. Approve previous Meeting minutes:
Mike Adam made motion to approve 10/19/17 minutes, Austin M seconded the motion, motion passed unanimously.
4. Public Comment: None
5. Continuous Monitoring Program. Mike Adam gave the report – LCHD has 7 conductivity monitors and NSWRD has 2 monitors that have already been placed in the watershed, mostly on the main stem of the Des Plaines River. They are continuous conductivity/DO monitors and will stay out through the winter. There was some discussion and Don H shared that Northwestern University is studying the riffle and pharmaceuticals – Kimberly Gray is the professor leading the study.
6. Finalize 2018 Laboratory Contract – Joe R handed out a packet of papers with cost estimates for the original plan with Suburban Labs (SL) and an Option A and an Option B. Joe stated he prefers Option A which would move all Tier 4 sites into Tier 3 and remove dissolved, reactive phosphorus (DRP), DO, temp, TOC and sulfate from the parameter list. None of these parameters were detected during the baseline sampling. It would also reduce the number of sampling events to 5 per year @ 71 sites for water quality. Joe would like to have a final contract to submit to the Executive Board by the January 18th meeting. Sampling will occur in Jan, June, July, Sept and Nov. Joe may add some pesticides to the analysis list.
7. Membership Dues for 2018 – no increase expected.
8. Annual Monitoring Report – Report is submitted to IL EPA in March, 2018.
9. Chlorides Policy/Fact Sheets – Beth A wanted to know if the Committee wanted her to pursue researching a chlorides policy, fact sheets and a postcard to give to organizations that have not attended the De-icing Workshop yet. The Committee agreed to let her research and create post cards.
10. Old Business
11. Other Business – Mike W announced that the County is moving forward with hiring an MS4 coordinator, a part-time FTE that will sit in the SMC office and work with the DRWW technical coordinator.
12. Next Monitoring Committee Meeting **December 21, 2017** at LCSMC
13. Adjourn: Mike Adam made a motion to adjourn, Al Giertych seconded the motion.

Committee Members Present

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

Mike Adam, LCHD

Al Giertych, LCDOT

Steve Vella, Village of Libertyville

Austin McFarlane (LCPW)

Jim Anderson, LCFPD

Other attendees:

Rob Flood, NSWRD

Kathleen Paap, WRI

Donald Hey, WRI

Beth Adler, DRWW Technical Coordinator

Brian Dorn, NSWRD

Mike Warner, LCSMC