EXECUTIVE BOARD MEETING AGENDA
November 19, 2026
2:00 pm – 3:00 pm
LCDOT Conference Room A, 600 W Winchester Rd, Libertyville, IL 60048

Discussion and possible approval of the following:

1. Call the meeting to order
2. Roll call
3. Public comment
4. Approval of Meeting Minutes
    a. *10/15/26 DRWW Executive Board meeting minutes
5. DRWW financials
    a. **Expenditures-revenue invoice(s) ratification
    b. DRWW Budget Review
6. Old business
    a. Monitoring Committee Updates
    b. USGS Next Generation Water Observation Station (NGWOS) at Russell Road Proposal Update
7. New business
    a. Discussion of FY2027 DRWW Budget and FY2027 DRWW Membership Dues
    b. ** DRWW FY27 Budget Approval
    c. ** DRWW FY27 Membership Dues Approval
    d. ** LCHD FY27 Technical Services Agreement Approval
    e. *Approval of 2027 Monitoring Strategy
    f. *Approval of 2027 DRWW Meeting Schedule
    g. Review of SMC Administrative Agent Agreement with DRWW
8. Member remarks
9. Next Meeting:
    a. DRWW Executive Board meeting: January 21, 2027 at 2:00pm, Lake County Division of Transportation (600 W. Winchester Road, Libertyville, Conference Room A)
10. Adjournment

*** = DRWW Action Item; Consensus vote***
****** = DRWW Action Item; Roll Call***

EXECUTIVE BOARD
MEETING MINUTES
June 18, 2026 2:00 pm – 3:00 pm
LCDOT Conference Room A, 600 W Winchester Rd, Libertyville, IL 60048

1. **Call the meeting to order**
   Paul Kendzior, DRWW President, called the meeting to order at 2:00 pm.

2. **Roll call**
   Ashley Strelcheck, DRWW Coordinator, performed roll call. **Paul Kendzior**, Village of Libertyville (President); **Chuck Bodden**, North Shore Water Reclamation District (NSWRD); **Austin McFarlane**, Lake County Public Works; **Michael Talbett**, Village of Kildeer; **Gary Glowacki**, Lake County Forest Preserve District; **Steve Waters**, NSWRD; and **Alana Bartolai**, Lake County Health Department. A quorum was present.

   Others present: Virtually Zoe Schaaf, Lake County Stormwater Management Commission (SMC).

3. **Public comment**
   There was no public comment

4. **Approval of Meeting Minutes**
   a. ***09/17/26 DRWW Executive Board meeting minutes**
      Glowacki motioned to approve the 05/21/26 DRWW Executive Board meeting minutes. The motion was seconded by **Bodden**. **Kendzior** abstain. Motion passed with a unanimous vote.

5. **DRWW financials**
   a. ****Expenditures-revenue invoice(s) ratification**
      Strelcheck presented the expenditures and revenues**. Talbett** motioned to ratify the expenditures and revenues as presented, seconded by **Waters**. Roll Call: Kendzior - aye, Bodden - aye, McFarlane – aye, Talbett – aye, Glowacki – aye, Waters - aye, Bartolai - abstain; motion passed (6-1-0).

   b. **DRWW Budget Review**
      Strelcheck presented the DRWW FY2026 Budget. There were no questions.

6. **Old business**
   a. **Monitoring Committee updates**
      The Executive Board reviewed updates from the Monitoring Committee, including the 2026 monitoring results, the proposed microbial source tracking program, and the annual review of the 2027 Monitoring Strategy. The committee requested additional time to review the Monitoring Strategy before approval.

DRAFT

b. **USGS Next Generation Water Observation Station (NGWOS) at Russell Road Proposal Update**
Bartolai and Niedzinski met with the USGS to discuss the proposed Next Generation Water Observation Station. The formal proposal is still in development and may be available by March 2027. Cost estimates may be available in November to assist with budgeting, including ongoing maintenance costs. The Executive Board supported waiting for the formal proposal while using the cost estimates for budget planning and accounting for potential cost-sharing opportunities.

7. New business

a. **Discussion of FY2027 DRWW Budget and FY2027 DRWW Membership Dues**
The Executive Board reviewed the proposed FY2027 budget, including bioassessment and water quality monitoring costs. Niedzinski will obtain an updated cost estimate for the bioassessment, and the bioassessment timeline will be added to the Monitoring Strategy. Strelcheck increased the placeholder for water quality monitoring expenses to $40,000. The unused MBI IPS Model Trainings $5000 expenditure will be removed from the budget going forward.
The Board discussed potential membership dues reductions and reviewed how dues are calculated for member agencies. Niedzinski will prepare budget scenarios showing base dues and 5%, 10%, and 15% reductions for FY2027–FY2033. The revised scenarios will be reviewed at the next meeting before proposed dues are brought to the General Membership. An additional meeting in December may be scheduled if further discussion is needed.
The Board also discussed the workgroup's bylaws, future water quality improvement priorities, and how available funds, including those allocated for the Nutrient Assessment and Reduction Plan (NARP), can be used to support actionable projects

8. Member remarks

Flood noted that Lake Lovers submitted a Watershed Management Board (WMB) project proposal and requested general support from DRWW for the organization's mission and project. Although the project deadline had passed, the committee expressed support for Lake Lovers and its efforts.

The committee also discussed potential newsletter highlights, including the Mill Creek Project presented at the General Membership meeting, the new Water Quality Monitoring Tool, and outreach resources created by the Lakes Committee earlier in the year.

9. Next Meeting:

a. DRWW Executive Board meeting: November 19, 2026 at 2:00pm, Lake County Division of Transportation (600 W. Winchester Road, Libertyville, Conference Room A)

10. Adjournment

Motion by **Bodden**, seconded by **Waters** to adjourn. Motion passed with unanimous vote. Kendzior adjourned the meeting at **2:50**pm.

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2026 DRWW REV-EXP

DRWW Revenues

Name	DRWW Actual Amount	DRWW Ratification Date	DRWW Ratification
FY2026 DRWW Membership Dues: Hey & Associates	$ 200.00	3/19/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Sierra Club	$ 200.00	3/19/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Lake Zurich	$ 1,713.32	3/19/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Lake County Forest Preserve District	$ 250.00	3/19/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Old Mill Creek	$ 200.00	3/19/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Lake County (Unincorporated & DOT)	$ 18,307.88	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Third Lake	$ 625.86	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Kildeer	$ 2,376.82	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Buffalo Grove	$ 3,675.70	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Lincolnshire	$ 1,850.97	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Deerfield	$ 229.58	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Deer Park	$ 1,107.49	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Lake County Public Works	$ 60,164.39	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Vernon Hills Park District	$ 200.00	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: City of Park City	$ 370.12	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Grayslake	$ 5,117.17	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Gurnee	$ 6,515.04	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: City of Lake Forest	$ 160.91	5/21/2026	DRWW Ratified
FY2026 DRWW Invoice: Vetaclear	$ 200.00	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Fremont Township	$ 310.95	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Green Oaks	$ 794.04	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Riverwoods	$ 1,395.03	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Vernon Hills	$ 4,039.45	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: North Shore Water Reclamation District	$ 83,126.00	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Gewalt-Hamilton Associates	$ 200.00	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Libertyville Township	$ 1,215.85	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: City of Waukegan	$ 2,757.45	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Illinois Department of Transportation	$ 2,875.49	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Libertyville	$ 14,635.55	5/21/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Lindenhurst	$ 7,698.15	5/21/2026	DRWW Ratified
FY2026 DRWW Invoice: Davey Tree Expert Company	$ 200.00	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Ela Township	$ 296.32	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Vernon Township	$ 339.62	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Applied Technologies	$ 200.00	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Round Lake Beach	$ 499.38	6/18/2026	DRWW Ratified
FY2026 DRWW Invoice: Baxter and Woodman	$ 200.00	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Lake County SMC	$ 200.00	6/18/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Round Lake Park	$ 137.95	7/16/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Christopher B. Burke Engineering	$ 200.00	7/16/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Integrated Lakes Management	$ 200.00	7/16/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Environmental Products and Services	$ 200.00	7/16/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Geosyntec Consultants	$ 200.00	7/16/2026	DRWW Ratified
FY2026 DRWW Membership Dues: Village of Long Grove	$ 3,585.20	8/20/2026	DRWW Ratified
FY2026 DRWW Membership Dues: City of Zion	$ 830.30	8/20/2026	DRWW Ratified
	$ 229,801.98		

DRWW Expenditures

Name	DRWW Actual Amount	DRWW Ratification Date	DRWW Ratification
FY25 SMC Quarter 1 Payment	$ 6,478.37	6/18/2026	DRWW Ratified
FY26 DRWW MS4 Workshop Sponsorship	$ 250.00	7/16/2026	DRWW Ratified
FY26 SMC Quarter 2 Payment	$ 10,206.67	7/16/2026	DRWW Ratified
FY26 DRWW LCHD WQ Monitoring PR01	$ 19,047.24	9/18/2026	DRWW Ratified
FY26 DRWW LCHD WQ Monitoring PR02	$ 18,421.47	9/18/2026	DRWW Ratified
DRWW FY26 Winter Best Practice Workshop Materials Expense	$ 12.21	10/15/2026	DRWW Ratified
DRWW FY26 Winter Best Practice Workshop Sponsorship	$ 250.00	10/15/2026	DRWW Ratified
DRWW FY26 Winter Chloride Watchers Sponsorship	$ 250.00	10/15/2026	DRWW Ratified
FY26 DRWW LCHD WQ Monitoring PR03	$ 17,341.37	10/15/2026	DRWW Ratified
FY26 SMC Quarter 3 Payment	$ 3,955.03	10/15/2026	DRWW Ratified
DRWW FY26 Lake County Calibration Event Sponsorship	$ 76.65		
DRWW FY26 Winter Chloride Watchers Event Sponsorship	$ 80.99		
FY26 DRWW LCHD WQ Monitoring PR04	$ 22,172.21		
FY26 DRWW LCHD WQ Monitoring PR05	$ 19,015.11		
	$ 117,557.32		

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

TO: Kurt Woolford

FROM: Ashley Strelcheck

DATE: November 9, 2026

RE: Payment Request: DRWW Sponsorship of Lake County Calibration Event

Materials were billed to Christine Sher's P-Card. Please pay P-card expenses through account number 778-4230010-71150.

Project Name: DRWW Sponsorship of Lake County Calibration Event

Purchase Order No.: **None**
Expense Account No.: **775-4220010-61080**

Total Invoices:	$ 153.31
Total Amount to be Paid:	**$ 76.65**

Original Budget Line-Item Amount:	$ 2,000.00
Previous Payments:	$ 762.21
This Request*:	**$ 76.65**
Remaining Balance:	*$ 1,616.14*

** This payment memo is an DRWW Executive Board approved expense under budget line item "Education & Outreach". The Winter Best Practices events were approved by the DRWW Executive Board as a not-to-exceed amount of $700 on June 18, 2026. The total amount of the Lake County Calibration Event receipts for materials (food, drinks) was $153.31. This amount is being split between the North Branch Chicago River Watershed Workgroup (NBWW) and the Des Plaines River Watershed Workgroup (DRWW).*

Required Approvals:

KW _____

Sweetdonuts

$48.00

#C4c2
Nov 4 2026 at 10:48 AM

Custom Amount	**$48.00**
Total	**$48.00**

Sweetdonuts
124 Peterson Rd
Libertyville, IL 60048-1004
(847) 816-7764

MasterCard 6360 (Contactless)

Nov 4 2026 at 10:48 AM

Auth code: 02920Z

AID: A0000000041010

No CVM

© 2026 Square Privacy Policy
1955 Broadway, Suite 600
Oakland, CA 94612

Sweetdonuts

$30.00

#gj2i
Nov 5 2026 at 6:20 AM

Custom Amount	**$30.00**
Total	**$30.00**

Sweetdonuts
124 Peterson Rd
Libertyville, IL 60048-1004
(847) 816-7764

MasterCard 8813 (Contactless)

Nov 5 2026 at 6:20 AM

Auth code: 04604Z

AID: A0000000041010

No CVM

Square Just Got More Rewarding
Your favorite businesses may send you news and rewards via Square.

© 2026 Square Privacy Policy
1955 Broadway, Suite 600
Oakland, CA 94612

Schaaf Zoe

-- REPRINT --
! DELAY !

-- Ready At 11:42 AM --
PICKUP

Jimmy Johns #470
1112 North Milwaukee Ave
847-918-8772

11-05-2026 Chk# 39 Open 11:13 AM
Tkr: 316 Reg# 1 11:46 AM > **TODAY** <

! DELAY !

-- Ready At 11:42 AM --

#10 Hunters Club	9.69
NO mayo	
Zack	
#4 Turkey Tom	8.29
NO tomatoes	
ADD cucumbers	
Kevin	
#7 Spicy Italian	9.69
Branden	
#5 Vito	8.29
..UNWICH	
NO cheese	
Ashley	
#12 Beach Club	9.69
..UNWICH	
E-Z mayo	
Zoey	
#1 Pepe	8.29
ADD yellow mustard	
Anna	
#5 Vito	8.29
Alana	
Pickle Chips	2.19
Sweet BBQ Brisket	10.89
----TOASTED----	
NO mayo	
NO onion	
James	
Subtotal	75.31

Total $ 75.31

*** PAID ***

MasterCard XX.8813 Amt: 75.31 Tip: 0.00

Schaaf Zoe
847-867-1894

PICKUP

Order Taker: Inshop
! DELAY !

-- Ready At 11:42 AM --

Chk# 39

To let us know how we did, visit
telljj.com.
Look up your JJ Rewards at
jimmyjohns.com

Delivery charges are not distributed to employees as tips.

Look up your Freaky Fast Rewards at
jimmyjohns.com. y Fast Rewards At
Jimmyjohns.Com.

STORMWATER MANAGEMENT COMMISSION

MEMORANDUM

TO: Kurt Woolford

FROM: Anna Niedzinski

DATE: November 12, 2026

RE: Payment Request: DRWW Sponsorship of Winter Chloride Watchers Training Event

Materials were billed to Christine Sher's P-Card. Please pay P-card expenses through account number 778-4230010-71310.

Project Name: DRWW Sponsorship of Winter Chloride Watchers Training Event

Purchase Order No.: **None**
Expense Account No.: **775-4220010-61080 (Food & Provision)**

Total Invoices:	$ 161.98
Total Amount to be Paid:	**$ 80.99**

Original Budget Line-Item Amount:	$ 2,000.00
Previous Payments:	$ 838.86
This Request*:	**$ 80.99**
Remaining Balance:	*$ 1,080.15*

** This payment memo is an DRWW Executive Board approved expense under budget line item "Education & Outreach". The Winter Best Practices events were approved by the DRWW Executive Board as a not-to-exceed amount of $700 on June 18, 2026. The total amount of the Winter Chloride Watchers Training receipts for materials (food, drinks) was $161.98. This amount is being split between the North Branch Chicago River Watershed Workgroup (NBWW) and the Des Plaines River Watershed Workgroup (DRWW).*

Required Approvals:

KW _____

Christine

! DELAY !

-- Ready At 5:00 PM --

PICKUP

Jimmy Johns #470
1112 North Milwaukee Ave
847-918-8772

10-20-2026 Chk# 65 Open 12:00 PM
Tkr: 1:7 Reg# 5 12:00 PM > D166 <

! DELAY !

-- Ready At 5:00 PM --

	30Pc Party Box (C)	80.99
	..#4 Turkey Tom	
	..#4 Turkey Tom	
	..#4 Turkey Tom	
	..#4 Turkey Tom	
	..#4 Turkey Tom	
	..#4 Turkey Tom	
	..#6 The Veggie	
	..#6 The Veggie	
	..#6 The Veggie	
	..#6 The Veggie	
	No mayo all	
13	TAKE mayo packets	
13	TAKE mustard packets	
	30Pc Party Box (C)	80.99
	..#1 Pepe	
	..#1 Pepe	
	..#1 Pepe	
	..#1 Pepe	
	..#1 Pepe	
	..#1 Pepe	
	..#5 Vito	
	..#5 Vito	
	..#5 Vito	
	..#5 Vito	
	No mayo all	
13	TAKE mayo packets	
13	TAKE mustard packets	

Subtotal	161.98
Sales Tax (8.5%)	Exempt

Total $ 161.98

***** PAID *****

LakeCounty
Health Department and
Community Health Center

Christopher Hoff, MPH
Executive Director

500 W. Winchester Road
Libertyville, Illinois 60048
Phone 847 377 8000

October 20, 2026

RE: LCHD Invoice for DRWW Water Quality Sampling for August 2026

Mrs. Niedzinski,

Attached you will find the invoice and monitoring data for the August 2026 sampling for the Des Plaines River Watershed Workgroup. There were no dry/no flow sites.

TKN had to be analyzed at an accredited outside lab due to issues with lab equipment. TKN was analyzed at Eurofins.

Site	Analysis	RPD	Justification
13-1	E.coli	27%	RPD is 27% when typically we prefer 10% or under. RPD for E.coli samping is often higher than for chemical analytes primarily due to the non-uniform distrubtion of bacteria in the environment. E.coli bacteria are not dissolved uniformly like chemical analyte but exist in clumps, colonies, or associated with paticles.

If you have any questions, please do not hesitate to contact me at the contact information below:
Thank You,

Alana Bartolai
Lake County Health Department
Ecological Services Program Coordinator
Abartolai2@lakecountyil.gov
847-377-8009

INVOICE 400035984

Remit To Address:
Health Department
3010 Grand Ave.
Waukegan, IL 60085

Des Plaines River Watershed Workgroup
500 W. Winchester Road
Libertyville, IL 60048

Invoice Date: 16-Oct-2026
Due Date: 15-Nov-2026
Customer #: 204671
P.O.#:

Comments:

Description	Quantity	Rate	Amount
PERSONNEL AUGUST 2026	1	6,300.00	6,300.00
SUPPLIES AUGUST 2026	1	349.21	349.21
WATER ANALYSIS AUGUST 2026	1	15,523.00	15,523.00
		TOTAL:	22,172.21

Please detach and return this portion with your payment

Health Department
3010 Grand Ave.
Waukegan, IL 60085

Customer #: 204671
Customer Name: Des Plaines River Watershed Workgroup
Invoice Number: 400035984
Invoice Date: 16-Oct-2026

Amount Enclosed $, , .

Make checks payable to **Lake County Health Department**

DRWW Detailed Invoicing - Aug 2026

Personnel				
Description	Quantity	Hours	Cost	Total
Water Quality Specialists	3	112.5	48	5400
Program Coordinator	1	15	60	900
Subtotal Personnel				6300
Supplies				
Description	Quantity	Hours	Cost	Total
Laboratory Supplies	1	NA		0
Field Supplies	1	NA	349.21	349.21
Sub Total Supplies				349.21
Water Analysis				
Analyte	Quantity	Hours	Cost	Total
Chloride	79	NA	$ 15.00	$ 1,185.00
Sulfate	79	NA	$ 15.00	$ 1,185.00
TSS	79	NA	$ 18.00	$ 1,422.00
Total Hardness	79	NA	$ 15.00	$ 1,185.00
Ammonia	79	NA	$ 15.00	$ 1,185.00
Nitrates Nitrites	79	NA	$ 18.00	$ 1,422.00
TKN	79	NA	$ 18.00	$ 1,422.00
Total Phosphorus	79	NA	$ 25.00	$ 1,975.00
SRP	79	NA	$ 18.00	$ 1,422.00
E.coli	77	NA	$ 25.00	$ 1,925.00
Chlorophyll	18	NA	$ 65.00	$ 1,170.00
Chlorophyll Shipping	1	NA	$ 25.00	$ 25.00
Conductivity	79	NA	$ -	$ -
Temp	79	NA	$ -	$ -
pH	79	NA	$ -	$ -
Sub Total Water Analysis				$ 15,523.00
Total Invoice Cost				$ 22,172.21

LakeCounty
Health Department and
Community Health Center

Christopher Hoff, MPH
Executive Director

500 W. Winchester Road
Libertyville, Illinois 60048
Phone 847 377 8000

November 12, 2026

RE: LCHD Invoice for DRWW Water Quality Sampling for September 2026

Mrs. Niedzinski,

Attached you will find the invoice and monitoring data for the September 2026 sampling for the Des Plaines River Watershed Workgroup. There were no dry/no flow sites.

TKN had to be analyzed at an accredited outside lab due to issues with lab equipment. TKN was analyzed at Eurofins.

There are a few nitrate-nitrite samples that have qualifiers associated with it. The qualifiers are listed on the data excel and include the following descriptors:

RS: The reference standard for the analysis batch associated with the sample was above acceptance criteria, however, the analyte was not detected in the associated sample. Data is fully usable under the 2009 TNI standard

QS: Spike recovery was outside acceptable limits. All other curves were good.

R2: The reference standard for the analysis batch associated with this sample was above acceptance criteria. Results could have greater uncertainty. However, LCHD runs multiple reference standards only the 0.05 was out but the 0.2 and 1.0 ppm were accurate which are the standards closer to value of analysis result. Data is acceptable.

Site	Analysis	RPD	Justification
16-3 16-6	E.coli	20% 14%	RPD is 20% and 14% respectively, when typically we prefer 10% or under. RPD for E.coli sampling is often higher than for chemical analytes primarily due to the non-uniform distribution of bacteria in the environment. E.coli bacteria are not dissolved uniformly like chemical analyte but exist in clumps, colonies, or associated with particles.

If you have any questions, please do not hesitate to contact me at the contact information below:
Thank You,

Alana Bartolai
Lake County Health Department
Ecological Services Program Coordinator
Abartolai2@lakecountyil.gov
847-377-8009

INVOICE 400036083

Remit To Address:
Health Department
3010 Grand Ave.
Waukegan, IL 60085

Des Plaines River Watershed Workgroup
500 W. Winchester Road
Libertyville, IL 60048

Invoice Date: 11-Nov-2026
Due Date: 11-Dec-2026
Customer #: 204671
P.O.#:

Comments:

Description	Quantity	Rate	Amount
PERSONNEL SEPTEMBER 2026	1	6,300.00	6,300.00
SUPPLIES SEPTEMBER 2026	1	697.11	697.11
WATER ANALYSIS SEPTEMBER 2026	1	12,018.00	12,018.00
		TOTAL:	19,015.11

Please detach and return this portion with your payment

Health Department
3010 Grand Ave.
Waukegan, IL 60085

Customer #: 204671
Customer Name: Des Plaines River Watershed Workgroup
Invoice Number: 400036083
Invoice Date: 11-Nov-2026

Amount Enclosed **$** , , .

Make checks payable to **Lake County Health Department**

DRWW Detailed Invoicing - September 2026

Personnel				
Description	Quantity	Hours	Cost	Total
Water Quality Specialists	3	112.5	48	5400
Program Coordinator	1	15	60	900
Subtotal Personnel				6300
Supplies				
Description	Quantity	Hours	Cost	Total
Laboratory Supplies	1	NA		0
Field Supplies	1	NA	697.11	697.11
Sub Total Supplies				697.11
Water Analysis				
Analyte	Quantity	Hours	Cost	Total
Chloride		NA	$ 15.00	$ -
Sulfate		NA	$ 15.00	$ -
TSS	79	NA	$ 18.00	$ 1,422.00
Total Hardness		NA	$ 15.00	$ -
Ammonia	79	NA	$ 15.00	$ 1,185.00
Nitrates Nitrites	79	NA	$ 18.00	$ 1,422.00
TKN	79	NA	$ 18.00	$ 1,422.00
Total Phosphorus	79	NA	$ 25.00	$ 1,975.00
SRP	79	NA	$ 18.00	$ 1,422.00
E.coli	79	NA	$ 25.00	$ 1,975.00
Chlorophyll	18	NA	$ 65.00	$ 1,170.00
Chlorophyll Shipping	1	NA	$ 25.00	$ 25.00
Conductivity	76	NA	$ -	$ -
Temp	76	NA	$ -	$ -
pH	76	NA	$ -	$ -
Sub Total Water Analysis				$ 12,018.00
Total Invoice Cost				$ 19,015.11

FY2026 Des Plaines River Watershed Workgroup Budget (Dec. 2025 thru Nov. 2026)	**Actual FY2025**	**Projected FY2026**	**Actual FY2026**
REVENUE/Description	***Base Dues***	***Base Dues***	***Base Dues***
Dues/Membership dues (775-4220010-46010)	$ 229,205.40	$ 229,401.98	$ 229,801.98
Expendable Carryover Addition (775-4220010-46010)	$ 175,946.82	$ 283,573.55	$ 283,573.55
Account Interest (775-4220010-48011)			*$ 105.43*
TOTAL REVENUE	**$ 405,152.22**	**$ 512,975.53**	**$ 513,480.96**
EXPENSES/Description			
2025 Geosyntec Proposed NARP Comments	$ 13,855.00		
2025 LCHD Sampling	$ 82,007.50		
2025 SMC Administrative/GIS/Tech Support	$ 25,000.00		
2025 Education & Outreach Expenses	$ 716.17		
2026 Expense Account - 775-4220010-71310			
2026 LCHD Sampling		$ 99,264.00	$ 95,997.40
2026 SMC Administrative/GIS/Tech Support		$ 25,000.00	$ 20,640.07
MBI IPS Model Trainings		$ 5,000.00	
2026 Education & Outreach Expenses		$ 2,000.00	$ 919.85
IL/WI Super Gage Installation Placeholder Cost		*$ 130,000.00*	
TOTAL EXPENDITURES	**$ 121,578.67**	**$ 261,264.00**	**$ 117,557.32**
Projected Unexpended Carryover	*$ 283,573.55*	*$ 251,711.53*	*$ 395,923.64*

Des Plaines River Watershed Workgroup (DRWW) Budget Draft Proposed Budget of Accounts; 2028-2030 MBI Sampling with USGS SuperGage, Water Quality Summary, and Microbial Source Tracking		Actual FY2025	Projected FY2026	Actual FY2026	Projected FY2027	Projected FY2028	Projected FY2029	Projected FY2030	Projected FY2031	Projected FY2032	Projected FY2033
REVENUE/Description	**Account #**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**	**BASE DUES**
Dues/Membership dues	775-4220010-46010	$ 229,205.40	$ 229,401.98	$ 229,801.98	$ 229,801.98	$ 229,801.98	$ 229,801.98	$ 229,801.98	$ 229,801.98	$ 229,802.98	$ 229,803.98
Expendable Carryover Addition	775-4220010-46010	$ 175,946.82	$ 283,573.55	$ 283,573.55	$ 391,458.28	$ 268,476.26	$ 40,206.43	$ (204,474.21)	$ (439,941.41)	$ (522,275.69)	$ (616,848.97)
NSWRD Contract Commitment											
Other State Funds/Illinois EPA 319 Grant	775-4220010-45350										
Interest	775-4220010-48011										
Other (FPD/LCDOT)											
Total Revenue		**$ 405,152.22**	**$ 512,975.53**	**$ 513,375.53**	**$ 621,260.26**	**$ 498,278.24**	**$ 270,008.41**	**$ 25,327.77**	**$ (210,139.43)**	**$ (292,472.71)**	**$ (387,044.99)**
EXPENSES (Descriptions)											
Geosyntec Proposed NARP Comments	775-4220010-71310	$ 13,855.00									
2025 LCHD Sampling	775-4220010-71310	$ 82,007.50									
2025 SMC Administrative/GIS/Tech Support	775-4220010-79940	$ 25,000.00									
Education & Outreach Expenses	775-4220010-79950	$ 716.17									
2026 LCHD Sampling	775-4220010-71310		$ 99,264.00	$ 95,997.40							
IL/WI USGS SuperGage Installation Placeholder cost	775-4220010-71310		$ 130,000.00								
MBI IPS Model Trainings	775-4220010-72980		$ 5,000.00								
2026 SMC Administrative/GIS/Tech Support	775-4220010-79940		$ 25,000.00	$ 25,000.00							
Education & Outreach Expenses	775-4220010-79950		$ 2,000.00	$ 919.85							
2027 LCHD Sampling	775-4220010-71310				$ 100,284.00						
IL/WI USGS SuperGage Installation Placeholder cost	775-4220010-71310				$ 160,000.00						
Water Quality Placeholder Cost	775-4220010-71310				$ 40,000.00						
Microbial Source Tracking Placeholder	775-4220010-71310				$ 25,000.00						
2027 SMC Administrative/GIS/Tech Support	775-4220010-79940				$ 25,000.00						
Education & Outreach Expenses	775-4220010-79950				$ 2,500.00						
MBI Split Bioassessment Placeholder costs	775-4220010-71310					$ 138,376.45					
2028 LCHD Sampling	775-4220010-71310					$ 104,295.36					
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310					$ 162,400.00					
Microbial Source Tracking Placeholder	775-4220010-71310					$ 25,000.00					
2028 SMC Administrative/GIS/Tech Support	775-4220010-79940					$ 25,000.00					
Education & Outreach Expenses	775-4220010-79950					$ 3,000.00					
MBI Split Bioassessment Placeholder costs	775-4220010-71310						$ 147,679.45				
2029 LCHD Sampling	775-4220010-71310						$ 108,467.17				
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310						$ 164,836.00				
Microbial Source Tracking Placeholder	775-4220010-71310						$ 25,000.00				
2029 SMC Administrative/GIS/Tech Support	775-4220010-79940						$ 25,000.00				
Education & Outreach Expenses	775-4220010-79950						$ 3,500.00				
MBI Split Bioassessment Placeholder costs	775-4220010-71310							$ 156,154.77			
2030 LCHD Sampling	775-4220010-71310							$ 112,805.86			
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310							$ 167,308.54			
2030 SMC Administrative/GIS/Tech Support	775-4220010-79940							$ 25,000.00			
Education & Outreach Expenses	775-4220010-79950							$ 4,000.00			
2031 LCHD Sampling	775-4220010-71310								$ 117,318.10		
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310								$ 169,818.17		
2031 SMC Administrative/GIS/Tech Support	775-4220010-79940								$ 25,000.00		
Education & Outreach Expenses	775-4220010-79950								$ 4,500.00		
2032 LCHD Sampling	775-4220010-71310									$ 122,010.82	
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310									$ 172,365.44	
2032 SMC Administrative/GIS/Tech Support	775-4220010-71310									$ 25,000.00	
Education & Outreach Expenses	775-4220010-79950									$ 5,000.00	
2033 LCHD Sampling	775-4220010-71310										$ 126,891.25
IL/WI USGS SuperGage Maintenance Placeholder cost	775-4220010-71310										$ 174,950.92
2033 SMC Administrative/GIS/Tech Support	775-4220010-71310										$ 25,000.00
Education & Outreach Expenses	775-4220010-79950										$ 5,000.00
Expenses		**$ 121,578.67**	**$ 261,264.00**	**$ 121,917.25**	**$ 352,784.00**	**$ 458,071.81**	**$ 474,482.62**	**$ 465,269.17**	**$ 312,136.26**	**$ 324,376.26**	**$ 331,842.17**
Projected Unexpended Carryover		*$ 283,573.55*	*$ 251,711.53*	*$ 391,458.28*	*$ 268,476.26*	*$ 40,206.43*	*$ (204,474.21)*	*$ (439,941.41)*	*$ (522,275.69)*	*$ (616,848.97)*	*$ (718,887.16)*

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DRWW DRAFT 2027 Membership Dues

AGENCY MEMBERS (29)									
Name	**Acres within the Des Plaines River Watershed**	**Design Average Flow (MGD)**	**Fixed Component**	**WTP Contribution 66%**	**Acreage Contribution 33%**	**Base Entity Dues (per capita cap N/A to PW/DOT entities)**	**Total Population (Lake County 2020 GIS)**	**Per Capita Dues (Cap = $0.60 per capita)**	**2027 PROPOSED MEMBERSHIP BASE DUES (Recalculated Value w/ Per Capita Adjustment)**
Buffalo Grove	4,456	0	$ 200.00	$ -	$ 3,475.70	$ 3,675.70	29,408	$ 0.12	$ 3,675.70
Deer Park	1,163	0	$ 200.00	$ -	$ 907.49	$ 1,107.49	2,358	$ 0.47	$ 1,107.49
Deerfield	38	0	$ 200.00	$ -	$ 29.58	$ 229.58	0	0	$ 229.58
Ela Township	123	0	$ 200.00	$ -	$ 96.32	$ 296.32	2,726	$ 0.11	$ 296.32
Fremont Township	142	0	$ 200.00	$ -	$ 110.95	$ 310.95	3,914	$ 0.08	$ 310.95
Grayslake	6,304	0	$ 200.00	$ -	$ 4,917.17	$ 5,117.17	20,322	$ 0.25	$ 5,117.17
Green Oaks	762	0	$ 200.00	$ -	$ 594.04	$ 794.04	1,754	$ 0.45	$ 794.04
Gurnee	8,096	0	$ 200.00	$ -	$ 6,315.04	$ 6,515.04	30,442	$ 0.21	$ 6,515.04
IDOT	3,430	0	$ 200.00	$ -	$ 2,675.49	$ 2,875.49	-	$ -	$ 2,875.49
Kildeer	2,791	0	$ 200.00	$ -	$ 2,176.82	$ 2,376.82	4,090	$ 0.58	$ 2,376.82
Lake County (Unincorporated & DOT, LCHD)	38,863	0	$ 200.00	$ -	$ 30,313.14	$ 30,513.14	33,790	$ 0.90	$ 18,307.88
Lake County Public Works	0	24.1	$ 400.00	$ 59,764.39	$ -	$ 60,164.39	0	$ -	$ 60,164.39
Lake Forest	87	0	$ 200.00	$ -	$ 68.18	$ 268.18	22	$ 12.19	$ 160.91
Lake Zurich	1,940	0	$ 200.00	$ -	$ 1,513.32	$ 1,713.32	10,046	$ 0.17	$ 1,713.32
Libertyville	5,534	4	$ 400.00	$ 9,919.40	$ 4,316.15	$ 14,635.55	20,790	$ 0.23	$ 14,635.55
Libertyville Township	1,302	0	$ 200.00	$ -	$ 1,015.85	$ 1,215.85	3,043	$ 0.40	$ 1,215.85
Lincolnshire	2,117	0	$ 200.00	$ -	$ 1,650.97	$ 1,850.97	5,483	$ 0.34	$ 1,850.97
Lindenhurst	2,998	2	$ 400.00	$ 4,959.70	$ 2,338.45	$ 7,698.15	14,452	$ 0.19	$ 7,698.15
Long Grove	7,404	0	$ 200.00	$ -	$ 5,775.34	$ 5,975.34	8,427	$ 0.71	$ 3,585.20
North Shore Water Reclamation District	0	45.6	$ 400.00	$ 113,081.16	$ -	$ 83,126.00	0	$ -	$ 83,126.00
Park City	218	0	$ 200.00	$ -	$ 170.12	$ 370.12	3,247	$ 0.11	$ 370.12
Riverwoods	1,532	0	$ 200.00	$ -	$ 1,195.03	$ 1,395.03	2,541	$ 0.55	$ 1,395.03
Round Lake Beach	384	0	$ 200.00	$ -	$ 299.38	$ 499.38	2,330	$ 0.21	$ 499.38
Round Lake Park	38	0	$ 200.00	$ -	$ 29.91	$ 229.91	2	$ 114.95	$ 137.95
Third Lake	546	0	$ 200.00	$ -	$ 425.86	$ 625.86	1,111	$ 0.56	$ 625.86
Vernon Hills	4,922	0	$ 200.00	$ -	$ 3,839.45	$ 4,039.45	26,757	$ 0.15	$ 4,039.45
Vernon Township	179	0	$ 200.00	$ -	$ 139.62	$ 339.62	5,388	$ 0.06	$ 339.62
Waukegan	3,279	0	$ 200.00	$ -	$ 2,557.45	$ 2,757.45	6,020	$ 0.46	$ 2,757.45
Zion	1,518	0	$ 200.00	$ -	$ 1,183.83	$ 1,383.83	1,710	$ 0.81	$ 830.32
	100,167							**TOTAL:**	**$ 226,751.98**
AGENCY MEMBER (Exemption)									
Lake County Forest Preserve District	12,108	N/A	$250	N/A	N/A	N/A	N/A	N/A	**$ 250.00**
ASSOCIATE MEMBERS (14)									
Applied Technologies, Inc.									$ 200.00
Baxter & Woodman									$ 200.00
Christopher B. Burke Engineering									$ 200.00
Davey Tree Company									$ 200.00
EPS, Inc.									$ 200.00
Geosyntec									$ 200.00
Gewalt Hamilton									$ 200.00
Hey & Associates									$ 200.00
ILM									$ 200.00
Lake County SMC									$ 200.00
Sierra Club									$ 200.00
Vernon Hills Park District									$ 200.00
Vetaclear									$ 200.00
Village of Old Mill Creek									$ 200.00
TOTALS								**Associate Member Total**	**$ 2,800.00**
								TOTAL	**$ 229,801.98**

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2027 TECHNICAL SERVICES AGREEMENT between the
DES PLAINES RIVER WATERSHED WORKGROUP
and
LAKE COUNTY HEALTH DEPARTMENT for
WATER CHEMISTRY MONITORING

This is an agreement (Agreement) by and between the DES PLAINES RIVER WATERSHED WORKGROUP, 500 West Winchester Road, Libertyville, Illinois 60048 (DRWW) and LAKE COUNTY HEALTH DEPARTMENT, 500 West Winchester Road, Libertyville, Illinois 60048 (LCHD).

PURPOSE

The DRWW wishes to engage the LCHD to provide technical services to assist the DRWW in conducting water quality monitoring in the Des Plaines River watershed located in Lake County, Illinois. The water quality monitoring will satisfactorily collect and process water column monitoring samples within the watershed. The DRWW has selected 73 sampling locations within the Des Plaines River watershed in Lake County, Illinois.

SERVICES

LCHD will conduct water quality monitoring by collecting samples, analyzing the samples collected, and providing the data to the DRWW based on the approved DRWW Quality Assurance Project Plan. The Scope of Services to be provided by the LCHD to accomplish the DRWW's objectives for the water column chemistry monitoring is set forth in Attachment A, DRWW Water Column Monitoring, SCOPE OF SERVICES.

Additionally, LCHD will conduct a site analysis during the 2027 monitoring year and bring comments/suggestions to the DRWW Monitoring Committee and Executive Board regarding site locations.

COMPENSATION

1. LCHD agrees to perform the Scope of Services and furnish the items included in the Scope of Services for a fee (Agreement Amount) not to exceed $100,284 water quality sampling and analysis according to the rates in Attachment B, Project Budget.

2. The DRWW agrees to pay LCHD for a total project cost not to exceed $100,284 using the compensation schedule identified in Attachment B. The final ten percent of the Agreement Amount shall be retained by the DRWW until the project is successfully completed and all deliverables have been received and approved.

3. LCHD shall furnish the DRWW with an itemized invoice monthly. Invoices shall describe the work completed; show the actual number hours worked by team member; and actual travel and other expenses that have occurred. Payments by the DRWW shall be made in accordance with the Illinois Local Prompt Payment Act (50 ILCS 505/1 et. seq.).

SCHEDULE AND DELIVERABLES

All sampling and reporting shall be completed by November 30, 2027. Sampling will be conducted at all sites within one week per month and approximately the same week every month.

Sampling Schedule

- February 2027
- May 2027
- July 2027
- August 2027
- September 2027

Project Deliverables:

- Electronic data deliverables (EDDs) and the sample results in an editable Microsoft Excel file, as specified by the DRWW.
- At each invoicing period, the following will be provided: excel of analytical results and chain(s) of custody,. Any sampling or testing observations which may have affected accuracy will be noted in the report narrative. Any applicable data qualifiers (e.g., matrix spike failure) will also be noted in the project specific comments portion of the report narrative page.

TERMS and CONDITIONS

1. The DRWW may, by written Order, make changes in the scope of work if such changes are within the general scope of the Agreement. If such changes cause an increase or decrease in the LCHD's cost or the time required to complete the project, the parties hereto shall agree to an adjustment in the Agreement Amount, prior to issuance of the Change Order. Adjustment of the Agreement Amount shall be based on the estimated change in the number of staff hours required plus any changes in the LCHD's expense. The LCHD will not be compensated for additional services performed without an approved Change Order.

2. Either party may terminate this Agreement by providing thirty (30) day written notice to the other party. DRWW shall pay LCHD for all qualifying expenses incurred prior to the date of termination. Any and all services or deliverables provided to DRWW by LCHD shall remain the property of DRWW.

3. This Agreement shall be governed by and construed according to the laws of the State of Illinois. Jurisdiction and venue shall be exclusively found in the 19th Judicial Circuit Court, State of Illinois (735 ILCS 5/2-103), or Federal District Court, Northern District, whichever is applicable.

4. This Agreement supersedes any and all other agreements, oral or written, between the parties hereto with respect to the subject matter hereof.

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5. This Agreement shall not be assigned, altered or modified without the express written consent of both parties.

NOTICES AND COMMUNICATION

All notices and communications given to either party by the other relative to this Agreement shall be addressed to the respective parties as follows:

To the DRWW: Des Plaines River Watershed Workgroup
500 West Winchester Road
Libertyville, Illinois 60048
ATTENTION: Anna Niedzinksi, Administrative Agent
aniedzinksi@lakecountyil.gov

To the LCHD: Lake County Health Department
500 West Winchester Road
Libertyville, Illinois 60048
ATTENTION: Alana Bartolai, Project Manager
ABartolai2@lakecountyil.gov

For the DRWW: **Attest:**

_____ _____
Paul Kendzior, President Des Plaines River Watershed Workgroup
Des Plaines River Watershed Workgroup

Date: _____

For the LCHD: **Attest:**

_____ _____
Sam Johnson, Deputy Executive Director Lake County Health Department
Lake County Health Department

Date: _____

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ATTACHMENT A

DRWW Water Column Monitoring
SCOPE OF SERVICES

1.Sampling Schedule

1.1 Tier 1, 2, 3 Water Sampling and Analysis

Sampling will be conducted using a three-tier monitoring strategy following the attached Illinois EPA approved Quality Assurance Project Plan (QAPP) (Attachment A). Sampling sites and their associated tier are listed in Attachment C. Tier 1 sites have been identified by the DRWW as the core sites and are to be sampled for water column analyses along with Sestonic Chlorophyll a. Tier 2 and 3 sites will be sampled for water column analyses. Tier 2 and 3 are differentiated, as Tier 3 sites will not be sampled for sediment analyses in future years (sediment sampling will not occur during this contract period). Water quality sampling will occur at 73 sites for each sampling period. The sampling will occur during 5 months: February, May, July, August and September. These collected samples will be tested for the water quality monitoring parameters listed in Table 1 utilizing agreed upon standard operating procedures and the reporting limits and the laboratory method detection limits (MDLs) listed in table 2 (Test Methods and Reporting Limits). If DRWW assistance is needed in gaining access or permission to sites for monitoring, a three-week notice will be provided by LCHD to DRWW.

It is the goal of the DRWW that this data be available for use by the Illinois EPA, the Illinois Department of Natural Resources, local decision makers, and all other interested parties; therefore, it is essential that the data collected is accurate, precise, cost-effective, and has low variability, making the results of the assessments comparable.

1.2 Field QA/QC samples

For every 20 samples collected, LCHD will also collect a blank and duplicate sample. The blank will be made up in the field by pouring deionized water into the same type of sample containers that are used for the surface water. The deionized water will be laboratory grade water from Lake County Health Department Environmental Laboratory facility. This water will be placed inside a pre-cleaned and certified container.

1.3 Field Parameters

Lake County Health Department is equipped with a water quality sonde field meter. This meter will be utilized for the following analyses in the field:

- Conductivity
- pH
- Temperature
- Dissolved Oxygen

The results of these parameters will be reported after each sampling event and on the final report along with the results of the analyses performed in the laboratory. This meter is calibrated each day prior to sampling.

2.Field Reporting

2.1 Chain of Custody (COC)

A COC will be kept each day that samples are collected. The COC will include:

- Name of the field services technician
- Location of sampling site
- Weather and water conditions (if unordinary condition apply)
- Dates and times of sample collection
- Preservatives
- Field measurements
- Descriptions of any unusual conditions at the sample locations
- Indication of duplicate sample location

3.Sample Custody and Handling

3.1 Labeling and Storage

All samples will be placed in non-contaminated containers provided by Lake County Health Department. All containers will be properly labeled. The duplicate sample will be labeled with the sample location and identified as “duplicate”. When preservation is required, pre-preserved bottles will be used. Samples will be placed inside a cooler with wet ice or equivalent until they reach the laboratory.

3.2 Chain of custody

Proper chain of custody documentation will accompany the collected samples. The chain of custody will contain the sample IDs, analyses to be performed, date and time of collection, type and number of containers, preservatives added, date and time of transfers, and the signature of each person involved in custody transfer. Indelible ink will be used on the container labels and chain of custody records. A copy of the chain of custody form will be included with the final report.

3.3 Sample preservation

Preservatives will be added to sample bottles prior to sample collection.

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4.Project Deliverables

4.1 Final Report

The final report will consist of a submissions during invoicing periods including an excel of all analytical results and chain of custodies.. Any sampling or testing observations which may have affected accuracy will be noted in the report narrative. Any applicable data qualifiers (e.g., matrix spike failure) will also be noted in the project specific comments portion of the report narrative page.

4.2 Electronic Data Deliverable

An electronic data deliverable (EDD) which includes the sample results in an editable Microsoft Excel file will be included for every report, in the format DRWW specified.

4.3 Turnaround Time

The results for all analytical analyses will be provided no later than 45 business days following the date of collection.

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TABLE 1: Water Quality Sampling Parameters

Parameter	Analysis Type (Laboratory or In-Situ)	DRWW Frequency	Tier 1	Tier 2	Tier 3
			Number of Sample Events		
Demand					
Chloride	Laboratory	Feb, Aug	2	2	2
Conductivity	In-Situ	Feb, May, July, Aug, Sept	5	5	5
pH	In-Situ	Feb, May, July, Aug, Sept	5	5	5
Sulfate	Laboratory	Feb, Aug	2	2	2
Total Suspended Solids	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Dissolved Oxygen	In-situ	Feb, May, July, Aug, Sept	5	5	5
Water Temperature	In-Situ	Feb, May, July, Aug, Sept	2	2	2
Metals					
Total Hardness	Laboratory	Feb, Aug	2	2	2
Nutrients					
Ammonia	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Total Nitrates (NO2 + NO3)	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Total Kjeldahl Nitrogen	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Total phosphorus	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Dissolved Reactive Phosphorus	Laboratory	Feb, May, July, Aug, Sept	5	5	5
Sestonic Chlorophyll a	Laboratory	May, July, Aug, Sept	4	0	0
Bacteria					
E. coli	Laboratory	May, July, Aug Sept	4	4	4

TABLE 2: Test Methods and Reporting Limits

Parameter	Method	MDL/Reporting Limit
Demand		
Chloride	325.2, EPA	0.5 mg/L
Conductivity	2510B, SM18th Ed.	2 µmhos/cm
pH	4500-H B, SM18th Ed.	N/A
Sulfate	375.4, EPA	1 mg/L
TSS	2540D, SM18th Ed.	0.2 mg/L
VSS	2540E	0.2 mg/L
DO	4500 YSI field meter	0.1 mg/L
Temperature	170.1	°C
Turbidity	180.1	0.1 mg/L
Metals		
Total Hardness	2340 C EDTA. SM18th Ed.	5 mg/L
Iron	200.7, EPA	0.005 mg/L
Sodium	200.7	0.1 mg/L
Arsenic	200.8	0.0008 mg/L
Manganese	200.8	0.002 mg/L
Mercury * (LOW LEVEL DETECTION LIMIT)	245.1, EPA or *1631 low det	0.0002 mg/L or 0.5 Ng/L
Copper	200.8, EPA	0.0005 mg/L
Nickel	200.8	0.0004 mg/L
Zinc	200.8, EPA	0.007 mg/L
Nutrients		
Ammonia	4500 NH3 D, SM18th Ed.	0.1 mg/L
Total Nitrates (NO2 + NO3)	353.2 EPA	0.05 mg/L
Total Kjeldahll Nitrogen	4500-N_{org} D, SM18th Ed	0.5 mg/L
Phosphorous	SM4500- P B 5 and #4500P E	0.02 mg/L
Dissolved reactive Phosphorus	SM4500P E	0.005 mg/L
Chlorophyll a		
Sestonic Chlorophyll a	SM 10200H	4 mg/M^3
Bacteria		
E-coli	9213D	1 CFU/100ml
Water Organics		
PCBs	8082, EPA	0.1 ug/L
Pesticides	8081, EPA	0.025 ug/L
Methoxychlor	8081 EPA	0.25 ug/L
PNAs	8270, EPA	0.1 ug/L
VOCs	8260, EPA	1.0 ug/L
Sediment Organics		
PCBs	8082, EPA	16.7 ug/Kg
Pesticides	8081, EPA	0.833 ug/Kg
Methoxychlor	8081 EPA	0.833 ug/Kg
PNAs	8270, EPA	40 ug/Kg
Herbicides (2,4,D & 2,4,5 TP)	8321	0.004 ug/Kg
Sediment inorganics		
TKN	4500 NH3E	100 mg/Kg
Phosphorus	6010B, EPA	2.3 mg/Kg
Cyanide	9014	0.005 mg/Kg
Phenols	420.1	0.005 mg/Kg
Sediment Metals		

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Parameter	Method	MDL/Reporting Limit
Aluminum	6010B, EPA	2.50 mg/Kg
Arsenic	6010B, EPA	1.15 mg/Kg
Barium	6010B, EPA	0.125 mg/Kg
Beryllium	6010B, EPA	0.0025 mg/Kg
Boron	6010B, EPA	0.05 mg/Kg
Cadmium	6010B, EPA	0.075 mg/Kg
Chromium	6010B, EPA	0.0600 mg/Kg
Cobalt	6010B, EPA	0.625 mg/Kg
Copper	6101B EPA	0.150 mg/Kg
Iron	6010B, EPA	0.625 mg/Kg
Lead	6010B, EPA	0.6 mg/Kg
Manganese	6010B, EPA	0.625 mg/Kg
Mercury	245.1	0.02 mg/Kg
Nickel	6010B, EPA	0.235 mg/Kg
Potassium	6010B, EPA	2.5 mg/Kg
Silver	6010B, EPA	0.06 mg/Kg
Sodium	6010B EPA	1.25 mg/Kg
Strontium	6010B, EPA	0.120 mg/Kg
Vanadium	6101B EPA	0.150 mg/Kg
Zinc	6010B, EPA	0.075 mg/Kg
Fluoride	4500	0.05 mg/Kg

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STANDARD OPERATING PROCEDURES

Surface Water Collection Procedures: Grab Samples
Updated 12/18/20
Written by: Lake County Health Department

SCOPE AND APPLICATION:

This standard operating procedure document (SOP) has been developed to maintain consistent data collection procedures and to ensure the quality of the data collected. This SOP is applicable to the collection of representative surface water samples from rivers, streams, lakes, or any other surface waters. This procedure is grab sample method that utilizes a high density polyethylene (HDPE) or stainless steel bucket, dip sampler, or direct method grab sampling.

SUMMARY OF METHODS

Sampling situations can vary widely depending on the location and characteristic of the waterbody. Generally, a surface water grab sample is accomplished through the use of one of the following techniques

- Dip sampler
- HDPE bucket (polyethelyene not for collection of organic samples)
- Direct Method

EQUIPMENT AND SUPPLIES

Equipment can vary depending on the location and characteristic of the waterbody but can include the following:

1. Stainless steel or HDPE bucket with rope or dip sampler
2. Deionized rinse water
3. Decontamination equipment and supplies
4. Appropriate sample bottles
5. Cooler with ice packs and/or wet ice
6. Field instrumentation
7. Field Log Book and Sample Chain of Custody
8. Waders/Boots if needed
9. Rubber Gloves if needed
10. Antibacterial soap
11. Sharpie, markers and labels

REAGENTS AND STANDARDS

Reagents may be used for preservation of samples. Preservatives will be specific to the analysis and determined by the laboratory. Cleaning solutions may be used for decontamination of sampling equipment.

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PROCEDURE:

Preparation

a. Before samples are collected, sample bottles should be labeled correctly with sampling ID number, Samplers initials, and a space for date and time to be filled in later.
b. Prior to being used for sample collection or holding, all sampling equipment is decontaminated and cleaned. Sample buckets should be scrubbed with solution of soap and water making sure the cleaning detergent is free of phosphates.
c. Coolers and samples bottles should be inspected before samples are collected. If dirt, residual chemicals or any other types of contaminants are present, the sample bottle should be discarded. The coolers should be washed with mild soap and wiped down if any contaminants are present.
d. Determine the sample locations by performing general site survey if possible. Prior knowledge of the locations will aid in determining exact equipment needs and safety considerations

Sample Collection

a. Sample bottles should be kept closed until they are filled.
b. Take sample at specified location. If sampling a river or stream, sample at the middle of the main channel at mid depth. Collect the sample from a representative site on the stream. Try to locate an area where the water is well mixed, and the velocity of flow is great enough that the chance of solids settling is minimal. Depending on the site characteristics, the sampler may use a bucket, pole sampler, or wade in and collect the sample. If samples are taken from a bridge, collect the sample from the upstream side of the structure unless otherwise noted in site description maps.

1. Bucket and Pole Sample Method: The bucket and wide mouth bottle must be cleaned before samples are collected and between sampling sites. The equipment shall be cleaned with phosphate-free detergent and blank water. Blank water should be deionized water. The equipment should be scrubbed with detergent and deionized water before the rinsing steps below are followed. Alternatively, a new bottle may be used for each sample. The following steps should be taken to ensure proper decontamination of the sample equipment:

   Step 1 – Blank Water Rinse
   - Rinse the inside of the bucket or wide mouth bottle by swirling with blank water.
   - Discard the remaining blank water.
   - Repeat Step 1.

   Step 1a – River Rinse and Field Measurements from Bucket
   - Lower the bucket into the stream and fill.
   - Discard the contents.

   Step 2 – Sample Collection - Bucket
   - Lower the bucket to mid-depth at center of flow, do not disturb bottom sediment

   Step 3 – Fill Sample Bottles

2. Wading Method

   To reduce the chance of disturbing the substrate/sediment the following protocols will be followed. The field technician will wade into stream and collect the sample, standing downstream of the collection point so as not to collect kicked up sediment.

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c. A log-sheet/chain of custody should be maintained during sampling and should include the following information:

    1. Date and time of sample
    2. Name of collector and transporter
    3. Initial/Name of person who relinquished the sample to lab
    4. Weather conditions during sampling (i.e., air temperature; cloudy, rain, snow) if unusual
    5. Visual observation of sample if unusual
    6. Field measurements such as pH, Temp, Conductivity, DO

d. Field Measurements:
Field measurements should be performed on site after all sample bottles have been filled. Follow the laboratory and manufacturer's instructions for calibrating, cleaning and using the sonde equipment. All data should be recorded in the field book or field collection sheet.

SAMPLE HANDLING, STORAGE, & PRESERVATION

Once samples have been collected, the following procedures should be followed:

a. Transfer the sample into a suitable, properly labeled sampled container specific for the analysis to be performed.
b. Preserve the sample, if appropriate. Pre-preserved sample containers are preferred for simplicity and convenience. Do not overfill containers if they are pre-preserved
c. Cap the container securely and cool immediately by placing in a sample cooler with wet ice or reusable ice packs.
d. Record all relevant information in the sample log book and collection sheets

QUALITY ASSURANCE, QUALITY CONTROL AND DUPLICATE SAMPLES

a. All personnel involved in the sampling collection process must be properly trained and understand the sampling SOP. Any deviations must be recorded in the field book and or on the field collection sheet. The laboratory supervisor must be notified of any deviations from the SOP and evaluate appropriately.
b. All field equipment shall be maintained following manufacturers recommendations. All field equipment shall be inspected, calibrated, and tested prior to sampling events and after the equipment returns from the field. Any problems encountered or maintenance required must be noted in the equipment maintenance log.
c. Field blank and duplicates shall be collected. The laboratory shall adhere to their Quality Assurance Plan for samples received in the lab. Samples will be analyzed by methods and reporting limits as described in Table 1.
    1. Duplicate Samples
    Duplicate samples are to be filled from the same round of stream water. Duplicate samples will be taken for all parameters once per 20 samples.
    2. Field Blank
    Sample bottles should be filled with blank water (deionized) from unopened blank water containers once per 20 samples.

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d. Chain of Custody: Chain of Custody forms must be filled out and accompany all samples to their laboratory. An example chain of custody is included (Figure 1)

CALIBRATION AND STANDARDIZATION

Field meter must be calibrated daily following manufacturers calibration procedures and documented in the field instrument calibration log book

SAFETY PRECAUTIONS

1. Personal Protection:
   Work or disposable gloves are recommended. Hip boots or waders may or may not be required during sample collection.
2. Chemical Hazards:
   Pre-preserved sample containers may contain hazardous chemicals. Handle all samples carefully to minimize exposure
3. Biological Hazards:
   Water samples may contain potential health hazards. Handle all samples carefully to minimize exposure.

INTERFERENCES

The two most common interferences in surface water collection include contamination and improper collection technique

1. Cross contamination can be eliminated by using dedicated or disposable sampling equipment and proper cleaning/decontamination procedures
2. Improper sample collection can occur when using contaminated sampling equipment or poor technique. It is important to collect the sample in the most representative area. Care should be taken to minimize bottom substrate and avoid surface scum or debris.

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Figure 1: Chain of Custody LCHD

Chain of Custody DRWW		LAB	
Feb/Aug			
Site Name:		**Date Received:**	
Sample Date:		**Time Received:**	
Sampled by:		**Received by:**	
Sampled by:		**Relinquished by:**	

#	LOCATION	DEPTH	TIME SAMPLED	LAB#

PARAMETERS	**X**	**COMPLETION DATE**	**BOTTLE**	**PRESERVATIVE**
Ammonia	**X**		500mL	*pre-preserved
Nitrate-Nitrite	**X**		2L	
TKN	**X**		500mL	
TP	**X**		500mL	*
SRP	**X**		500mL	*
TOTAL HARDNESS	**X**		2L	
TSS	**X**		2L	
Cl-	**X**		2L	
SULFATE	**X**		2L	
E.Coli	**X**		120 mL	
FIELD DATA (Sonde is Calibrated same day as Collection)				
PARAMETERS		Result	Method	
pH			YSI Sonde	
Temp			YSI Sonde	
Conductivty			YSI Sonde	
Dissolved Oxygen				

Comments: DRWW Project

Lab Only		
*Preservation:	*pH	*Initials
750µL 14.4M H2SO4, per 500mL	pH=<2	

OIL PRESENT?	
(circle one)	
NO	YES

Email reports to: abartolai2@lakecountyil.gov; jfitzgerald2@lakecountyil.gov

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Chain of Custody DRWW

May/July/Sept

Site Name:		**LAB**	
Sample Date:		**Date Received:**	
Sampled by:		**Time Received:**	
Sampled by:		**Received by:**	
		Relinquished by:	

#	LOCATION	DEPTH	TIME SAMPLED	LAB#
		0.5		

PARAMETERS	X	COMPLETION DATE	BOTTLE	PRESERVATIVE
Ammonia	X		500mL	*pre-preserved
Nitrate-Nitrite	X		2L	
TKN	X		500mL	*
TP	X		500mL	*
SRP	X		500mL	
TOTAL HARDNESS			2L	
TSS	X		2L	
Cl^-			2L	
SULFATE			2L	
E.Coli			120 mL	
FIELD DATA (Sonde is Calibrated same day as Collection)				
PARAMETERS		Result	Method	
pH			YSI Sonde	
Temp			YSI Sonde	
Conductivty			YSI Sonde	
Dissolved Oxygen			YSI Sonde	

Comments: DRWW Project

OIL PRESENT? (circle one)	
NO	YES

Lab Only

*Preservation:	*pH	*Initials
750µL 14.4M H2SO4, per 500mL	pH=<2	

Email reports to: abartolai2@lakecountyil.gov; jfitzgerald2@lakecountyil.gov

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TABLE 1: LCHD Test Methods and Reporting Limits

Analytical methods used for water quality parameters.

Parameter	***Method***
Temperature	Hydrolab DataSonde® 4a or YSI 6600 Sonde® YSI Exo Sonde®
Dissolved oxygen	Hydrolab DataSonde ®4a or YSI 6600 Sonde® YSI Exo Sonde®
Nitrate and Nitrite nitrogen	USEPA 353.2 rev. 2.0 EPA-600/R-93/100 Colorimetric Automated Cadmium Reduction Method Reporting Limit = 0.05 mg/L
Ammonia nitrogen	Rev SM 21st ed. Electrode method, #4500 NH_3-D Method Reporting Limit = 0.1 mg/L
Total Kjeldahl nitrogen	Rev SM 21st ed, 4500-N_{org} C Semi-Micro Kjeldahl, plus 4500 NH_3-D Method Reporting Limit = 0.5 mg/L
pH	Hydrolab DataSonde® 4a, or YSI 6600 Sonde® or YSI Exo Sonde Electrometric method
Total solids	SM, Method #2540B 1997 Method Reporting Limit 0.04 mg/L
Total suspended solids	SM, Method #2540D 1997 Detection Limit = 1.3 mg/L
Chloride	SM 21st ed, Method #4500C1-D 1997 Method Reporting Limit = 5 mg/L
Total volatile solids	SM, Method #2540E, from total solids plus 2540 G 1997
Conductivity	Hydrolab DataSonde® 4a or YSI 6600 Sonde® YSI Exo Sonde®
Total phosphorus	SM 21st ed, Methods #4500-P B 5 and #4500-P E 1999 Method Reporting Limit = 0.01 mg/L
Soluble reactive phosphorus	SM 21st ed, Methods #4500-P B 1 and #4500-P E 5.Method Reporting Limit = 0.005 mg/L
E.coli	Method: 9213D Method Reporting Limit: 1 CFU/100ml
Total Hardness	Method: 2340 C EDTA Method Reporting Limit: 5 mg/L
Sulfate	Method: 375.4, EPA Method Reporting Limit: 10 mg/L

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ATTACHMENT B

LCHD Project Budget – Water Chemistry

2027 LCHD-DRWW Monitoring Budget Quotation

				Quality Control		TOTAL (Tier 1, 2&3, QC)
Analyte	**Quoted Price**	**Proposed Quantity**	**Total**	**Proposed Quantity**	**Total QC**	
Demand						
Chloride	$ 15.00	146	$ 2,190.00	12	$ 180.00	$ 2,370.00
Conductivity*	Field					$ -
pH*	Field					$ -
Sulfate	$ 18.00	146	$ 2,628.00	12	$ 216.00	$ 2,844.00
TSS	$ 18.00	365	$ 6,570.00	30	$ 540.00	$ 7,110.00
Temperature*	Field					$ -
			$ -		$ -	$ -
Metals			$ -		$ -	$ -
Total Hardness	$ 15.00	146	$ 2,190.00	12	$ 180.00	$ 2,370.00
			$ -		$ -	$ -
Nutrients			$ -		$ -	$ -
Ammonia	$ 15.00	365	$ 5,475.00	30	$ 450.00	$ 5,925.00
Total Nitrates (NO2+NO3)	$ 18.00	365	$ 6,570.00	30	$ 540.00	$ 7,110.00
TKN	$ 18.00	365	$ 6,570.00	30	$ 540.00	$ 7,110.00
Total Phosphorus	$ 25.00	365	$ 9,125.00	30	$ 750.00	$ 9,875.00
Dissolved Reactive Phosphorus	$ 18.00	365	$ 6,570.00	30	$ 540.00	$ 7,110.00
			$ -		$ -	$ -
Chlorophyll			$ -		$ -	$ -
Sestonic Chlorophyll a	$ 65.00	72	$ 4,680.00	4	$ 260.00	$ 4,940.00
Chlorophyll Shipping	$ 30.00	4	$ 120.00		$ -	$ 120.00
Bacteria			$ -		$ -	$ -
E. Coli	$ 25.00	292	$ 7,300.00	24	$ 600.00	$ 7,900.00
* denotes field measurement						$ -
Analysis Subtotal			$ 59,988.00		$ 4,796.00	$ 64,784.00
Personnel						$ 31,500.00
Site Analysis						$ 1,000.00
Supplies						$ 3,000.00
TOTAL						$ 100,284.00

5 months
2 months (Feb & Aug)
4 months(chlorophyll 18 sites)

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ATTACHMENT C

2027 List of Sample Sites

DRWW ID	NewDRNAREA	Lat	Long	River/Stream Name	Subwatershed	Tier 1	Tier 2	Tier 3	Location	Comment
10-1	31.90	42.4248	-87.9973	North Mill	North Mill Creek	1			Milbourne Road	USGS Site (discontinued)
10-2	29.38	42.4442	-88.0007	North Mill	North Mill Creek		2		Kelly Road	Dam removal site - dam is notched
10-3	20.79	42.4661	-88.0090	North Mill Creek	North Mill Creek		2		Route 173	
10-4	5.64	42.4479	-88.0247	North Mill	North Mill Creek		2		Hastings Creek @ Miller Rd	
10-5	3.91	42.4308	-88.0343	North Mill	North Mill Creek		2		Hastings Creek @ Grass Lake Rd	
10-6	0.99	42.4215	-88.0045	Unnamed Trib to North Mill Creek	North Mill Creek			3	Ust. (W) of Route 45 - need better parking access	
10-7				North Mill	North Mill Creek	1			Edwards Road	Site added in 2019.
11-1	63.80	42.4183	-87.9451	Mill Creek	Mill Creek		2		Dilley's Road	
11-2	59.88	42.4154	-87.9690	Mill Creek	Mill Creek	1			Hunt Club Road	sample at POTW call Austin 847-377-7134 USGS Site
11-3	21.34	42.3989	-87.9824	Mill Creek	Mill Creek		2		Sterns School Road	
11-4	18.33	42.3833	-88.0041	Mill Creek	Mill Creek		2		Route 45	
11-5	9.35	42.3605	-88.0151	Mill Creek	Mill Creek		2		Washington St	
11-6	4.32	42.3350	-88.0397	Mill Creek	Mill Creek		2		Wick Street	
12-1	7.35	42.4835	-87.9128	Newport Drainage Ditch	Newport Drainage Ditch		2		Newport Drainage Ditch @ Kilbourne Ave	
12-2	2.82	42.4581	-87.8968	Newport Drainage Ditch	Newport Drainage Ditch		2		W. 21st Street along Union Pacific RR	
13-1	232.03	42.3438	-87.9411	Des Plaines River	Upper Des Plaines River	1			Hwy 120	USGS Site
13-10	4.02	42.4042	-87.9061	Suburban Country Club Trib	Upper Des Plaines River		2		Suburban Country Club Trib @ Shirley Dr	
13-11	2.37	42.4444	-87.9527	Slocum Corners Creek	Upper Des Plaines River		2		N. Mill Creek Rd.; E. of I-94	
13-12	2.35	42.4023	-87.8949	Suburban County Club Trib	Upper Des Plaines River			3	E. of Northwestern Ave.	Removed from chemical analyses in 2019
13-13	1.06	42.3654	-87.9014	Unnamed trib. - Greenleaf Creek	Upper Des Plaines River			3	Swanson Trigg Conservation Area - 42.3700 -87.9085	
13-14	1.10	42.3480	-87.9570	Unnamed Trib to Belvidere Rd Trib	Upper Des Plaines River			3	Leonard Dr.	
13-15	1.92	42.3259	-87.9784	Bull's Brook	Upper Des Plaines River			3	Almond Rd.	
13-16	253.75	42.3051	-87.9542	Des Plaines River	Upper Des Plaines River		2		Dst. Buckley Rd.	Need to access via Desplaines Trail
13-17	0.84	42.3002	-87.9390	Unnamed Trib to Des Plaines Rive	Upper Des Plaines River			3	Behind pump station off of Sprucewood Lane	
13-18	214.84	42.3975	-87.9245	Des Plaines River	Upper Des Plaines River	1			40' Above Riffle Structure	Access through Wetlands Research property
13-19				Des Plaines River	Upper Des Plaines River			3	Below Riffle Structure	Access through Wetlands Research property
13-2	225.36	42.3691	-87.9176	Des Plaines River	Upper Des Plaines River	1			McClure Ave	Canoe launch
13-3	220.39	42.3808	-87.9140	Des Plaines River	Upper Des Plaines River	1			Above Hwy 41	
13-4	145.54	42.4288	-87.9304	Des Plaines River	Upper Des Plaines River	1			Wadsworth Road	
13-5	137.29	42.4653	-87.9428	Des Plaines River	Upper Des Plaines River		2		Hwy 173	
13-6	123.67	42.4892	-87.9258	Des Plaines River	Upper Des Plaines River	1			Russel Road	USGS Site
13-7	2.69	42.3184	-87.9617	Bull's Brook @ Rt 21	Upper Des Plaines River		2		N. Milwaukee Ave.	
13-8	3.71	42.3427	-87.9454	Belvidere Rd Tributary	Upper Des Plaines River		2		Belvidere Rd Tributary @ Highway 21 and 120	
13-9	4.08	42.3528	-87.9367	Stone Roller @ Lake Carina	Upper Des Plaines River		2		Stone Roller @ Lake Carina	
14-1	11.67	42.3119	-87.9637	Bull Creek	Bull Creek		2		Hwy 21	
14-2	2.87	42.3061	-87.9690	Bull Creek	Bull Creek		2		Route 137	
14-3	0.99	42.3101	-87.9906	Bull Creek	Bull Creek			3	N. Countyryside Drive	
14-4	5.08	42.3025	-88.0008	W. Branch Bull Creek	Bull Creek		2		Northwind Blvd. - access 1600 behind warehouse	
14-5	1.33	42.2793	-88.0028	Bull Creek	Bull Creek			3	Adj. University Drive	call Clay K 847-312-3657
14-6	2.39	42.2877	-88.0229	Bull Creek	Bull Creek		2		Hazelnut Xing	
15-1	36.43	42.1981	-87.9231	Indian Creek	Indian Creek		2		Marriot Inn parking lot - adj. Cranes Landing GC	
15-10	2.22	42.2301	-88.0376	West Branch Indian Creek	Indian Creek			3	Gilmer Rd.	
15-11	1.70	42.2196	-88.0256	Forest Lake Drain	Indian Creek			3	Hawthorne Grove Rd.	
15-12	2.06	42.1969	-88.0399	Kildeer Creek	Indian Creek			3	IL Rt. 22	
15-13	3.43	42.1937	-88.0012	Kildeer Creek	Indian Creek			3	Willowbrook Rd. S. of Half Day Rd.	
15-2	35.02	42.2065	-87.9616	Indian Creek	Indian Creek		2		Sullivan Woods Preserve, North of Creekview Dr.	
15-3	5.07	42.2627	-87.9655	Indian Creek	Indian Creek		2		Gregg's Parkway	
15-4	6.78	42.2044	-87.9750	Indian Creek	Indian Creek		2		Port Clinton Rd at Kildeer Creek	
15-5	17.26	42.2105	-87.9876	Indian Creek	Indian Creek		2		Oakwood Rd.	
15-6	3.66	42.2394	-88.0231	Indian Creek	Indian Creek		2		Washitay Ave	
15-7	2.85	42.1943	-88.0300	Indian Creek	Indian Creek		2		Salem Lake Drive S. of Rt 22	
15-8	9.36	42.2149	-87.9662	Seavey Drainage Ditch	Indian Creek		2		Near Vernon Hills GC	
15-9	2.68	42.2446	-88.0356	Indian Creek	Indian Creek		2		N. Midlothian Rd.	
16-1	358.85	42.1094	-87.8878	Des Plaines River	Lower Des Plaines River	1			Palantine Frontage Rd.	
16-10	2.00	42.2505	-87.9255	Werhane Lake Drain	Lower Des Plaines River			3	St. Marys Rd.	
16-2	323.96	42.1531	-87.9102	Des Plaines River	Lower Des Plaines River		2		E. Lake Cook Rd.	
16-3	314.68	42.1676	-87.9134	Des Plaines River	Lower Des Plaines River	1			Deerfield Rd.	
16-4	273.21	42.2004	-87.9185	Des Plaines River	Lower Des Plaines River	1			Half Day Rd.	USGS Site
16-5	268.06	42.2405	-87.9392	Des Plaines River	Lower Des Plaines River	1			Illinois Route 60 - Town Line Rd.	
16-6	260.11	42.2767	-87.9391	Des Plaines River	Lower Des Plaines River	1			Rockland Rd.	
16-7	266.48	42.2490	-87.9426	Des Plaines River	Lower Des Plaines River		2		Hollister Dam site - adj. to Hollister Intl.	
16-8	268.90	42.2271	-87.9368	Des Plaines River	Lower Des Plaines River		2		Wright Woods Dam site - immediately ust. bike bridge	Dam removal access route - need key
16-9	1.19	42.1709	-87.9069	Unnamed Trib to Des Plaines Rive	Lower Des Plaines River			3	Timberleaf Lane	
17-1	29.23	42.1218	-87.8960	Buffalo Creek	Buffalo Creek		2		Route 21	
17-2	22.10	42.1519	-87.9692	Lake Cook Rd @ Farington Ditch	Buffalo Creek		2		Lake Cook Rd @ Farington Ditch	
17-3	9.59	42.1609	-87.9907	Buffalo Creek	Buffalo Creek		2		Checker Road	
17-4	8.55	42.1536	-87.9966	Buffalo Creek	Buffalo Creek		2		Lake Cook Rd @ Buffalo Creek Trib	
17-5	1.19	42.1858	-88.0580	Unnamed trib.	Buffalo Creek			3	Quentin Rd.	
18-1	5.50	42.1635	-87.9224	Aptakisic	Aptakisic Creek		2		Aspen Road	
18-2	4.94	42.1646	-87.9277	Aptakisic	Aptakisic Creek		2		Pekara Rd, West of Hwy. 21	
18-3	2.26	42.1777	-87.9608	Aptakisic Creek	Aptakisic Creek		2		Copperwood Dr. bike xing	
18-4	1.09	42.1812	-87.9667	Aptakisic Creek	Aptakisic Creek			3	N. Buffalo Grove Rd.	
18-5	0.99	42.1815	-87.9657	Unnamed Trib to Aptakisic Creek	Aptakisic Creek			3	Dst. Aptakapsic Rd.; W of N. Buffalo Grove Rd.	
Tier 1 Sites will be established as "core" sites which will receive bi-annual Biological Assessment and continous monitoring.										
						14	41	18		

Des Plaines River Watershed Workgroup
2027 Monitoring Strategy

Purpose

This Monitoring Strategy for the Des Plaines River Watershed in Lake County, Illinois was developed by the Des Plaines River Watershed Workgroup (DRWW) Monitoring Committee and approved by the Illinois EPA in 2016. This Monitoring Strategy is being updated to document changes to the DRWW's monitoring program beginning in 2027. The Monitoring Strategy is considered a living document. The DRWW Monitoring Committee will continue to use adaptive management to review the results of the monitoring program and will revise and update the Monitoring Strategy if changes are needed **(See Appendix A)**. For example, in 2020, the DRWW modified its Monitoring Strategy to focus attention on the Watershed Group's Nutrient Assessment Reduction Plan (NARP).

Program Goals

The DRWW will undertake a comprehensive monitoring program to fulfill the following goals, primary of which is to assist NPDES permittees in meeting monitoring permit requirements. Monitoring goals include:

- Assist NPDES permittees in meeting monitoring permit requirements
- Assessment of pollutant loads (nutrients, sediments, and/or contaminates) from both point and nonpoint sources
- Collect data to support evaluation of the efficacy of point and nonpoint mitigation measures
- Documentation of performance against the NARP nutrient reduction program
- Identify the quality of stream and river ecosystems along with the identification of chemical, biological, and physical stressors affecting them
- Tracking regulatory conformance for regional lakes and streams as described in Section 303d of the Clean Water Act
- Support future modeling efforts

The monitoring program will focus on meeting the analytical requirements of existing permits while continuing to document the existing water quality of the rivers and streams of the Des Plaines River watershed mostly within Lake County, Illinois.

Bioassessment monitoring is a voluntary program that DRWW continues to perform. Although this monitoring is not required under Illinois EPA NPDES in-stream permitting requirements or the DRWW bylaws, it supports the goals and objectives outlined in the workgroup's bylaws. This monitoring contributes to a more comprehensive watershed monitoring program and helps workgroup members identify potential point and nonpoint sources of pollution.

The DRWW monitoring program will establish baseline conditions and then measure progress towards meeting water quality standards.

Introduction and Background

The Des Plaines River Watershed covers over 130,000 acres or just over 200 square miles. The Des Plaines River starts just west of Kenosha, Wisconsin and flows south through Racine and Kenosha Counties in Wisconsin, and then through Lake, Cook, and Will Counties in Illinois. The river then joins the Chicago Sanitary and Ship Canal in Lockport, flows west through Joliet, before converging with the Kankakee River to form the Illinois River. The Illinois River then flows into the Mississippi River which flows south to the Gulf of Mexico.

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Portions of the Des Plaines River, tributaries and lakes within the watershed in Lake County are listed as impaired by the Illinois EPA **(See Appendix B)** and do not meet their designated uses under the Clean Water Act. Segments listed as impaired for pollutants including arsenic, chloride, fecal coliform, manganese, mercury, methoxychlor, phosphorus, polychlorinated biphenyls, sediment/silt, and total suspended solids. Other impairments affecting the Des Plaines River include algae, cover loss, dissolved oxygen, flow alteration, flow modification, stream alterations, and unknown causes. Phosphorous is currently limited by regulatory action through Publicly Owned Treatment Works (POTWs) National Pollutant Discharge Elimination System (NPDES) permits. Total Maximum Daily Loads (TMDLs) have been completed for some stream segments and lakes within the watershed and more may continue to be developed. However, it is unclear as to whether any of these regulatory mechanisms will ultimately allow for the impaired waterbodies to meet Clean Water Act standards.

The Des Plaines River Watershed Workgroup (DRWW) brings together local stakeholders to 1) better determine stressors to the aquatic system through a long-term water quality monitoring program; and 2) to work together to preserve and enhance water quality in the Des Plaines River and its tributaries.

Monitoring Types and Strategy

Water Column Sampling/Analysis Programs

- 73 Monitoring Locations **(See Appendix B)**
- Five water column collection periods: February, May, July, August, & September
- 5x/year: Total Suspended Solids, Ammonia, Total Nitrates, Total Kjeldahl Nitrogen, Total Phosphorus, Dissolved Reactive Phosphorus, Conductivity, pH, water temperature and Dissolved Oxygen
- 4x/year: E. coli (May, July, August, September)
- 4x/year *at 18 monitoring sites*: Sestonic Chlorophyll-a (May, July, August, September)
- 2x/year: Chloride, sulfate and hardness (February & August)
- The following is a summary of the DRWW Monitoring Program for 2027 **(Appendix C)**

Quality Assurance Project Plan

All monitoring is being conducted under Illinois EPA approved QAPP (2016). The DRWW utilized the DuPage River Salt Creek Workgroup's (DRSCW) approved QAPP and adapted it to be watershed specific for the Des Plaines Watershed bioassessment monitoring Illinois EPA requires the development of a QAPP for any activity involving the collection and analysis of environmental data. A QAPP presents the policies and procedures, organization, objectives, quality assurance requirements, and quality control activities designed to achieve the type and quality of environmental data necessary to support project or program objectives. It is the policy of Illinois EPA that no data collection or analyses will occur without an approved QAPP. All in-house and external environmental data collection activities are subject to this requirement. All contracts must address quality assurance requirements (e.g., data quality and reporting requirements) when those contracts pertain to, or have an impact on, data collection or analysis activities. Additionally, all grants and contracts need to address quality assurance requirements specified in applicable state acquisition or procurement regulations. The DRWW QAPP follows U.S. and Illinois EPA guidance for the development of a project specific QAPP.

Data and Reporting

Lake County Health Department

The Lake County Health Department, DRWW water chemistry contractor, sends water column chemistry data to the DRWW. DRWW staff take this data and format it to fit the Illinois EPA requirements for reporting surface-water and is submitted by the March 31st deadline to fulfill NPDES permit requirements.

Appendix A

Historical DRWW Monitoring Summary

2016 & 2017

In 2016, 44 locations were sampled for water chemistry, 49 locations for sediment, and 69 locations were sampled for biology. Midwest Biodiversity Institute's (MBI) Biological and Water Quality Assessment of the Upper Des Plaines River and Tributaries (2016) report documents the results of the baseline sampling. In 2017, the DRWW sampled 70 locations; 50 locations for water chemistry, and 1/3 of the 70 sites for biological/sediment. Indian Creek, Aptakisic Creek, and Buffalo Creek sub-watersheds plus direct tributaries to Des Plaines River adjacent those sub-watersheds and nested between the mainstem and the sub-watershed boundaries (23 sites) were sampled for biology/sediment. Continuous Flow Monitoring was conducted at 21 locations. Chlorophyll-a sampling and continuous monitoring at 14 locations for temp, pH, DO, and specific conductance.

Two Quality Assurance Project Plans (QAPPs) were developed for the monitoring program; a Bioassessment QAPP and a Flow Monitoring QAPP are available on the DRWW website [https://www.drww.org/reports-and-data].

2018 & 2019

In 2018, the DRWW sampled 71 locations for water chemistry, and 1/3 of the 71 sites for biological/sediment. The Upper Des Plaines mainstem (18 sites) plus small direct tributaries to the lower one-half of the mainstem (2 sites) were sampled for biology/sediment in 2018 (1/3 of the watershed). Continuous Flow Monitoring was conducted at 21 locations. Chlorophyll-a sampling and continuous monitoring was collected at 14 locations for temp, pH, DO, and specific conductance. Winter season Continuous Monitoring program for conductivity as a surrogate for chlorides was collected at 9 locations. In 2019, the DRWW sampled 73 locations for water chemistry, and the remaining 1/3 of the 73 sites for biological/sediment. This included sites in the Mill Creek and Bull Creek sub-watersheds plus direct tributaries to the Des Plaines River adjacent to those two watersheds and nested between the mainstem and the sub-watershed boundaries (30 sites). Continuous Flow Monitoring was conducted at 21 locations. Chlorophyll-a sampling and continuous monitoring was collected at 14 locations for temp, pH, DO, and specific conductance.

2020

In 2020, the DRWW sampled 73 locations for water chemistry, 14 core site locations for benthic chlorophyll-a and 20 (including the 14 core site locations) site locations for biological fish, habitat and macroinvertebrate sampling. 3 data sondes were deployed for continuous flow monitoring. In addition to sampling, DRWW has contracted with MBI for Integrated Prioritization System (IPS) Modeling; an in-depth analysis of all chemical, physical, and biological data collected. The DRWW contracted with Geosyntec to develop a Preliminary Nutrient Assessment & Reduction Plan Workplan in 2020.

2021

In 2021, the DRWW sampled 73 locations for water chemistry and 3 data sondes were deployed for continuous flow monitoring. Analysis was performed on for 2020 benthic chlorophyll-a and biological fish, habitat and macroinvertebrate samples. MBI integrated DRWW's 2020-2021 biological monitoring data into the IPS Model. The DRWW contracted with Geosyntec to develop a NARP (2021 – 2023).

2022

In 2022, the DRWW sampled 73 locations for water chemistry, 18 core site locations for sestonic chlorophyll-a and 20 (including the 14 core site locations) site locations for biological fish, habitat and macroinvertebrate sampling. 3 data sondes were deployed for continuous flow monitoring. MBI integrated DRWW's 2022 biological monitoring data into the IPS Model.

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2023

In 2023, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations and 18 core site locations for sestonic chlorophyll a. Analysis and reporting of 2022 fish, habitat, macroinvertebrate, and sediment chemistry was performed. The DRWW submitted the DRWW Nutrient Assessment Reduction Plan (NARP) to the Illinois EPA on December 29, 2023.

2024

In 2024, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations and 18 core site locations for sestonic chlorophyll-a. Analysis and reporting of 2022 fish, habitat, macroinvertebrate, and sediment chemistry was completed June 2024.

2025

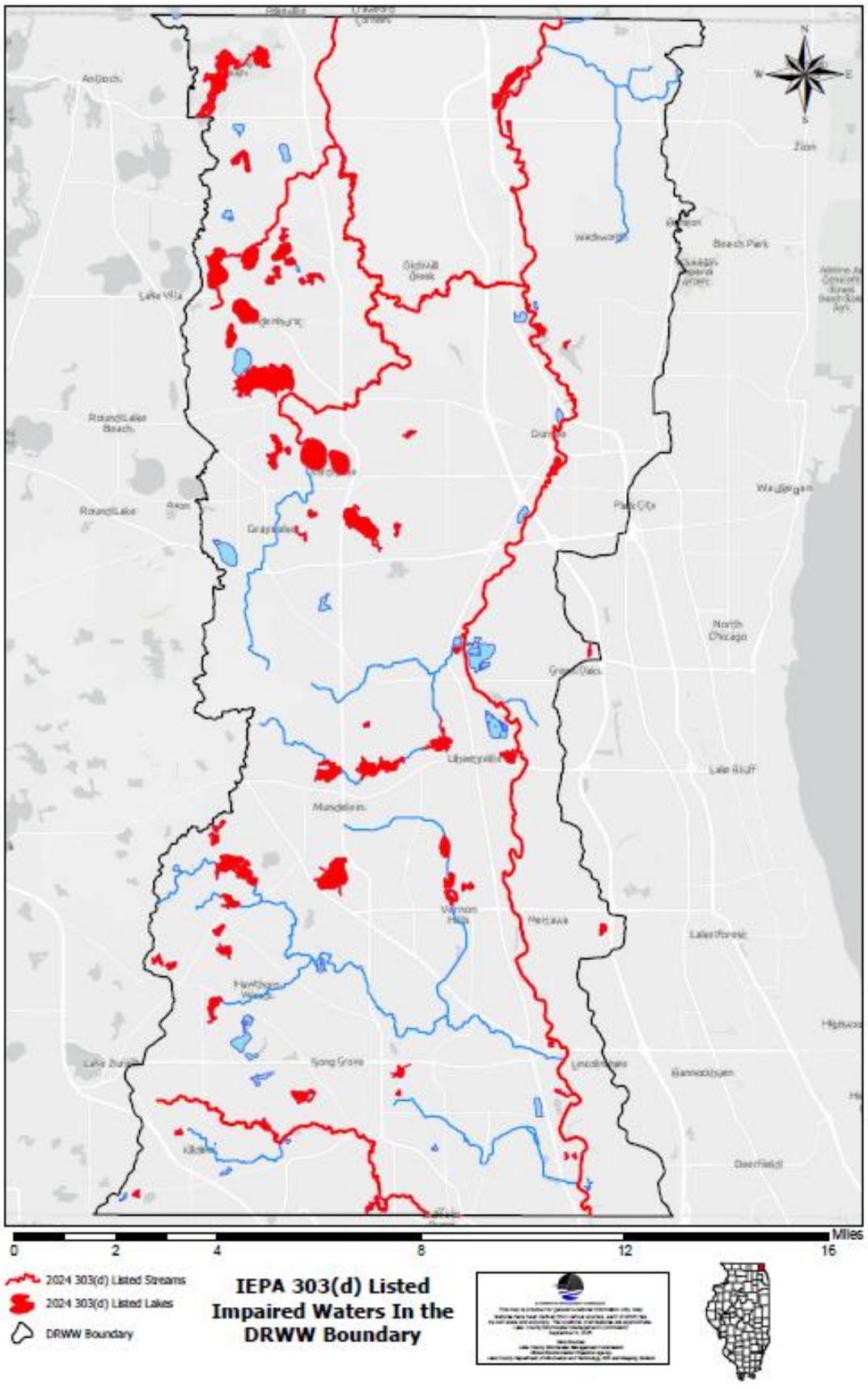
In 2025, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations and 18 core site locations for sestonic chlorophyll-a.

2026

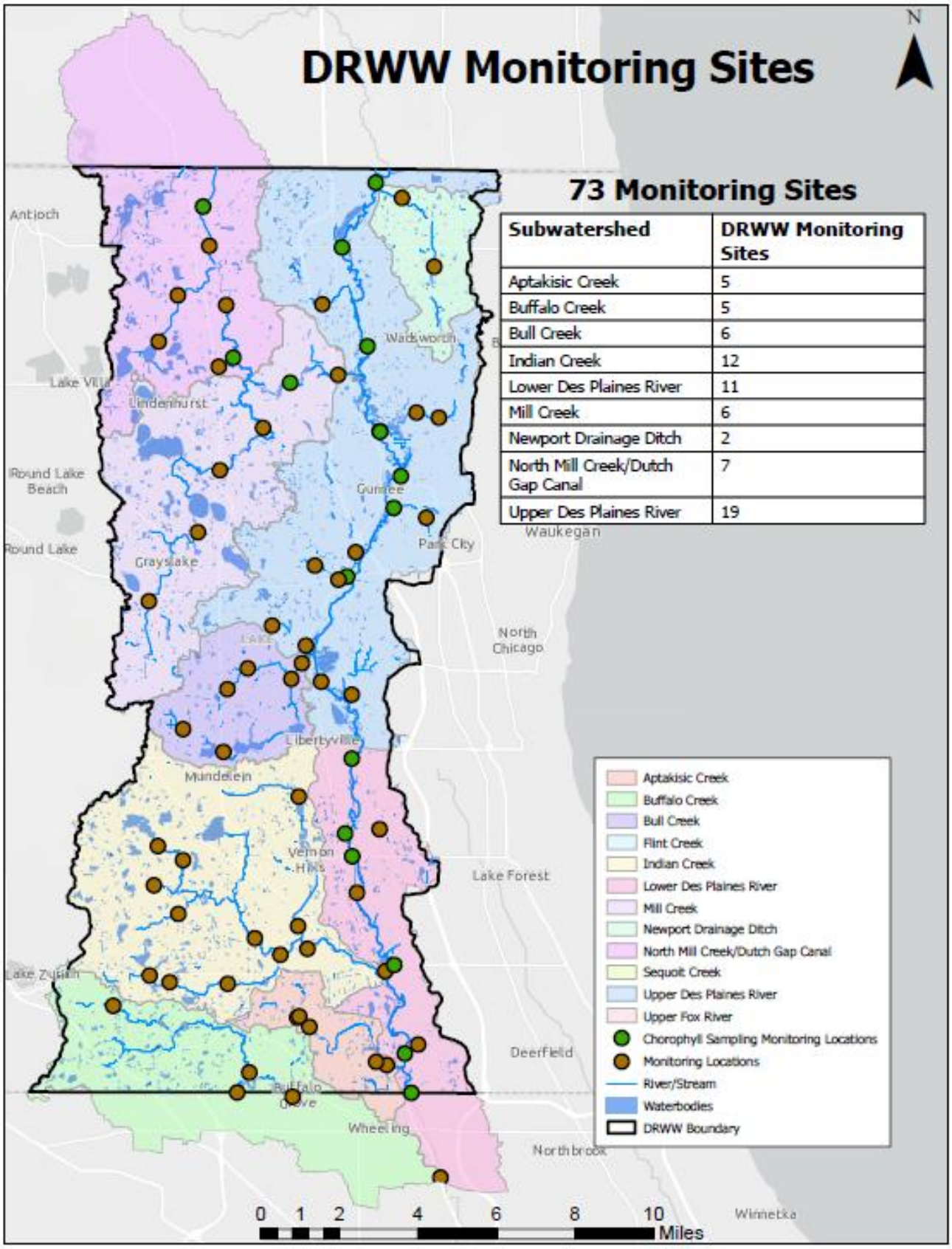
In 2026, DRWW's monitoring program included Water Quality sampling and analysis at 73 Monitoring Locations and 18 core site locations for sestonic chlorophyll-a. E. coli monitoring was expanded to four times a year.

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Appendix B


Miles
0
2
4
8
12
16
2024 303(d) Listed Streams
2024 303(d) Listed Lakes
DRWW Boundary
IEPA 303(d) Listed Impaired Waters In the DRWW Boundary

Appendix C


DRWW Monitoring Sites
N
73 Monitoring Sites
Subwatershed | DRWW Monitoring Sites
Aptakisic Creek | 5
Buffalo Creek | 5
Bull Creek | 6
Indian Creek | 12
Lower Des Plaines River | 11
Mill Creek | 6
Newport Drainage Ditch | 2
North Mill Creek/Dutch Gap Canal | 7
Upper Des Plaines River | 19
Antioch
Lake Villa
Lindenhurst
Round Lake Beach
Round Lake
Grayslake
Wadsworth
Gurnee
Park City
Waukegan
North Chicago
Libertyville
Mundelein
Vernon Hills
Lake Forest
Lake Zurich
Deerfield
Buffalo Grove
Wheeling
Northbrook
Winnetka
Aptakisic Creek
Buffalo Creek
Bull Creek
Flint Creek
Indian Creek
Lower Des Plaines River
Mill Creek
Newport Drainage Ditch
North Mill Creek/Dutch Gap Canal
Sequoit Creek
Upper Des Plaines River
Upper Fox River
Chorophyll Sampling Monitoring Locations
Monitoring Locations
River/Stream
Waterbodies
DRWW Boundary
0 1 2 4 6 8 10
Miles

Appendix D

Parameter	Analysis Type (Laboratory or In-Situ)	DRWW Frequency	Number of Sample Events
Demand			
Chloride	Laboratory	Feb, Aug	2
Conductivity	In-Situ	Feb, May, July, Aug, Sept	5
pH	In-Situ	Feb, May, July, Aug, Sept	5
Sulfate	Laboratory	Feb, Aug	2
Total Suspended Solids	Laboratory	Feb, May, July, Aug, Sept	5
Dissolved Oxygen	In-Situ	Feb, May, July, Aug, Sept	5
Water Temperature	In-Situ	Feb, May, July, Aug, Sept	5
Metals			
Total Hardness	Laboratory	Feb, Aug	2
Nutrients			
Ammonia	Laboratory	Feb, May, July, Aug, Sept	5
Total Nitrates (NO2 + NO3)	Laboratory	Feb, May, July, Aug, Sept	5
Total Kjeldahl Nitrogen	Laboratory	Feb, May, July, Aug, Sept	5
Total Phosphorous	Laboratory	Feb, May, July, Aug, Sept	5
Dissolved Reactive Phosphorous	Laboratory	Feb, May, July, Aug, Sept	5
Sestonic Chlorophyll a	Laboratory	May, July, Aug, Sept	4
Bacteria			
E. coli	Laboratory	May, July, Aug, Sept	4

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DRAFT Des Plaines River Watershed Workgroup (DRWW) 2027 Meeting Schedule

Approval needed from the DRWW Monitoring Committee & Executive Board

Meeting Type	Recurrence	Regular Date/Time	1/14/2027	1/21/2027	2/18/2027	3/18/2027	4/8/2027	4/15/2027	5/20/2027	6/17/2027	7/8/2027	7/15/2027	8/19/2027	9/16/2027	10/14/2027	10/21/2027	11/18/2027	Dec 2025
Executive Board	Monthly	3rd Thursday @ 2:00 pm		2:00 PM		2:00 PM		2:00 PM	2:00 PM	2:00 PM		2:00 PM		2:00 PM		2:00 PM	2:00 PM	
Monitoring/ WQ Improvement Committee	Monthly	3rd Thursday @ 12:30 pm		12:30 PM		12:30 PM		12:30 PM	12:30 PM	12:30 PM		12:30 PM		12:30 PM		12:30 PM	12:30 PM	
Lakes Committee	x4 year	2nd Thursday @ 10:00 am	10:00 AM				10:00 AM				10:00 AM				10:00 AM			
General Membership	Biannual	3rd Thursday @ 1:30 pm			1:30 PM								1:30 PM					Annual Accom.
LOCATION			CPF Med. Conf. Rm	LCDOT Conf. Rm A	Lake County CPF	LCDOT Conf. Rm A	CPF Med. Conf. Rm	LCDOT Conf. Rm A	LCDOT Conf. Rm A	LCDOT Conf. Rm A	CPF Med. Conf. Rm	LCDOT Conf. Rm A	Lake County CPF	LCDOT Conf. Rm A	CPF Med. Conf. Rm	LCDOT Conf. Rm A	LCDOT Conf. Rm A	

Locations: Executive Board and Monitoring Committee Meetings will be held at LCDOT's Conference Room A at 600 W Winchester Rd, Libertyville, IL 60048

General Membership Meetings will be held at LC Central Permit Facility, 2nd Floor Conference Room at 500 W Winchester Road, Libertyville, IL 60048

Lakes Committee Meetings will be held at LC Central Permit Facility, 2nd Floor Medium Conference Room at 500 W Winchester Road, Libertyville, IL 60048

Updated 11/17/2026

AGREEMENT between the
DES PLAINES RIVER WATERSHED WORKGROUP
And the
LAKE COUNTY STORMWATER MANAGEMENT COMMISSION
for providing ADMINISTRATIVE AGENT, GIS, and TECHNICAL COORDINATION SERVICES

WHEREAS, the Des Plaines River Watershed Workgroup (DRWW) is an organization formed individually and collectively, pursuant to the Intergovernmental Cooperation Act, 5 ILCS 220/1 et seq.; Article VII, Section 10 of the 1970 Constitution of the State of Illinois; the Local Land Resource Management Planning Act, 50 ILCS 805/1 et seq.; the Illinois Drainage Act, 70 ILCS 605/1 et seq.; and other statutory authority, the Environmental Protection Act, 415 ILCS 5 et seq.; The Green Infrastructure for Clean Water Act, 415 ILCS 56/1 et seq.; and other applicable law; and

WHEREAS, the Lake County Stormwater Management Commission ("SMC") formed pursuant to 55 ILCS 5/5-1062 et seq., providing authority to the Stormwater Management Commission; is desirous of acting as the 'Administrative Agent' for the DRWW and having related organizational mission and objectives; and

WHEREAS, the Administrative Agent duties provided to the DRWW shall include but are not limited to, communication and coordination, membership development, website management, financial accounting, meeting implementation following the Illinois Open Meetings Act requirements, providing Illinois Freedom of Information Act services per that Act's requirements, technical support, providing recommendations and support for purchasing and procurement of contractual services following Illinois Professional Services Selection Act and the Lake County Purchasing Policies when applicable; and

WHEREAS, the parties hereto, by their respective governing boards, find this Agreement to be fair and to the mutual benefit of the parties hereto.

NOW, THEREFORE, the DRWW and the SMC agree, by their authorized representatives, to the following:

1. That the recitals above be and are incorporated by reference as a part of this Agreement.

2. Mutual Agreements. DRWW and SMC agree:

   a) Sub-consultants hired by the DRWW shall be approved by the DRWW Executive Board and invoices received shall be paid by SMC from the DRWW account as part of the administrative services provided under this agreement.
   b) Mutually review the terms of this agreement, at a minimum, within the fourth fiscal quarter of each calendar year, to ensure both the SMC services rendered are meeting expectations of the DRWW and that SMC staff expenses are being remunerated appropriately.

3. DRWW Agreements. DRWW agrees as follows:

   a) The DRWW agrees to allow SMC to perform invoice payments to sub-consultants approved per 2.a) above.

4. SMC Agreements. SMC agrees as follows:

a) SMC agrees each year, starting in January 2021 and annually thereafter, to develop a yearly budget for the DRWW Executive Board approval and three-year budget estimate, based on projected membership dues received and expenses.

b) SMC agrees to provide the Administrative Agent services, effectively and efficiently for an amount estimated at 100 hours, at an average staff cost of $64/hr.

c) SMC agrees to provide financial reporting of revenues and expenditures on a monthly and year-end basis, so that the DRWW may make informed decisions on financial matters, regarding expenses and dues adjustments that may be necessary per the DRWW bylaws.

d) SMC agrees to provide Technical Coordinator services (at approximately 325 hours, to be billed within the not-to-exceed amount of this contract) for the following -

   a. Meeting Attendance: Executive Board, Committees and General Membership meetings

   b. Monitoring Work Plan: Coordinate with SMC administrative support staff, DRWW and subconsultants on development of the monitoring data needs, locations, maps and schedule.

   c. Meeting Support Services: Coordination with the SMC administrative support staff for meetings with the DRWW, including Executive Board meetings, Monitoring/Water Quality Improvements Committee meetings, Lakes Committee meetings, and quarterly meetings of the General Membership. Prepare meeting agendas, meeting minutes; meeting materials and coordination of or provision of presentations.

   d. Website Coordination: Coordination with SMC administrative support staff of website announcements of meeting content, news or other media information. Print material will be generated by SMC.

   e. Educational Outreach and Membership Development: Coordination with SMC administrative support staff of an educational and stakeholder outreach program. Provide strategic leadership regarding potential future group partnerships and members. Coordination with SMC administrative support staff of public notices, press releases, and email announcements to promote the DRWW goals and objectives.

   f. Attendance at Conferences or training sessions: The DRWW may request the Consultant to attend relevant conferences and trainings with respect to the purpose of this Agreement.

   g. Watershed Assessment Activities

      i. Technical Review of Watershed Assessment: Based on the watershed assessment data gathered through watershed planning and monitoring efforts, assist SMC administrative support staff with preliminary technical review of assessment data and provide comments for completeness.

      ii. Review of Watershed Plan Documents: Preliminary review assistance of draft watershed plan documents and provide comments. Provide review assistance of the final draft of the watershed plan prepared by SMC administrative support staff for submittal to the IEPA.

   h. Regulatory and Granting Agency Coordination: Represent the DRWW in coordination with IEPA, USEPA, and other regulatory agencies or granting sources to further the mission and goals of the DRWW, including but not limited to; a nutrient trading program, POTW and MS4 permit conditions and standards, grant opportunities, TMDL issues, and specific water quality parameter concerns.

5. Effective date of agreement: The effective date of this Agreement shall be December 1, 2020.

6. Terms of Agreement:

   a) The terms of this Agreement are valid until November 30th, 2021, after which time the DRWW Executive Board shall; review the work estimate provided by SMC for the upcoming fiscal year in accordance with Item 2.b) and determine an agreed contract funding level within the corresponding fiscal year budget.
   b) Either party may terminate this Agreement upon 30 days written notice to the other party. In the event of such termination, the DRWW shall reimburse the SMC for eligible administrative services made up to the date of notice of termination, up to the maximum not-to-exceed amount of $25,000 for the 2021 fiscal year.
   c) All adjustments, additions, and/or deletions to this Agreement are subject to the written approval of both parties.
   d) This Agreement shall be governed by and construed according to the laws of the State of Illinois.

Agreed and executed by the parties hereto, by their duly authorized representatives, on the date first written above.

Des Plaines River Watershed Workgroup

By:_____

Al Giertych, President

Attest: _____

Michael Talbett, Treasurer

Lake County Stormwater Management Commission

By: _____

Kurt Woolford, Technical Coordinator

Attest:_____

Jacob Jozefowski, DRWW Coordinator