

NORTH BRANCH CHICAGO RIVER WATERSHED WORKGROUP GENERAL MEMBERSHIP MEETING



NORTH BRANCH
CHICAGO RIVER
WATERSHED
WORKGROUP

Wednesday, November 10, 2021 * 1:00pm – 3:00pm

NBWW General Membership Meeting Agenda

1. Introductions

2. Public Comment

3. NBWW Business

- a. Approve NBWW August 11, 2021 General Membership Meeting Summary
- b. Financial Reports
- c. Monitoring Committee Update – Rob Flood, NBWW Monitoring & Water Quality Impairment Abatement Committee Chair
- d. Old Business
- e. New Business
 - i. 2021 NBWW Workplan & Scorecard Evaluation

4. Guest Speakers

- a. *NBWW Draft NARP Workplan Overview*
Brian Valleskey, Senior Professional and Rishab Mahajan, Senior Engineer, Geosyntec Consultants
- b. *Green Infrastructure Considerations for Healthy Watersheds*
Dennis Dreher, Senior Consultant; & Matt Bardol, Senior Principal Engineer; Geosyntec Consultants

5. Watershed Project Updates or Other Announcements/Discussion

- a. Watershed Updates & Announcements
 - i. 2021 Deicing Workshop (<https://saltsmart.org/workshops/>) Recap
 - ii. North Branch Chicago River Watershed-Based Plan
- b. Member Remarks
- c. Next NBWW General Membership Meeting (February 9, 2021)

6. Adjournment

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MS4 Program BMP fulfillment. If attendees want to apply NBWW meetings and education towards their MS4 Program BMP Measurable Goals, keep the certificate, agenda and minutes with sign-in sheets. Acceptance of these materials for MS4 program credit is at the discretion of the Illinois EPA.

NORTH BRANCH CHICAGO RIVER WATERSHED WORKGROUP GENERAL MEMBERSHIP MEETING MINUTES

Wednesday, August 11, 2021 * 1:00pm – 3:00pm



NORTH BRANCH
CHICAGO RIVER
WATERSHED
WORKGROUP

NBWW GENERAL MEMBERSHIP MEETING MINUTES

1. Introductions

Brandon Janes, North Branch Chicago River Watershed Workgroup (NBWW) President, welcomed attendees at 1:05 pm to the May 12, 2021 NBWW General Membership Meeting. The meeting was held virtually, and Ashley Strelcheck performed roll call of NBWW members and ask for designated NBWW voting delegates (meeting attendees and roll call sheet below). A total of 26 members (tallying 93 votes) were in attendance, so an NBWW meeting quorum was present (see results below). NBWW Executive Board Members in attendance included: Brandon Janes (Village of Deerfield), Matt Ueltzen (Lake County Forest Preserve District, LCFPD), Matt Farmer (Village of Northbrook), Robyn Flakne (Village of Glenview), Mike Zemaitis (Lake County Division of Transportation, LCDOT) and Rob Flood (North Shore Water Reclamation District, NSWRD).

2. Public Comment – None

3. NBWW Business

- a. Approve NBWW May 12, 2021 General Membership Meeting Summary. First Motion: Matt Farmer, Village of Northbrook, Second Motion: Robyn Flakne, Village of Glenview. The motion passed with unanimous consensus via roll call vote (see results below).
- b. Financial Reports
Ashley Strelcheck, NBWW Coordinator, presented the expenditures and revenues for ratification and summarized the NBWW membership dues status. There was no questions or discussion. Ratify Revenues/Expenditures: First Motion: Matt Ueltzen, LCFPD, Second Motion: Matt Farmer, Village of Northbrook. The motion passed with unanimous consensus via roll call vote (see results below).
- c. Monitoring Committee Update: Rob Flood, NSWRD and Monitoring & Water Quality Impairment Abatement Committee Chair, gave the NBWW Monitoring Committee update to the meeting attendees. 2021 is Year 4 of water quality monitoring, which sampled 14 out of the 25 sites (West Fork and Middle Fork) for biological sampling and Tier 3 sites. The next round of sampling is this month (August) and a smaller set of sampling in September and that will complete NSWRD's sampling efforts for this year. MBI has performed continuous sampling for benthic chlorophyll with the additional datasondes purchased this year. NBWW Monitoring Committee will reassess the NBWW Monitoring Strategy for 2022 once the Preliminary NARP Workplan is completed. An Iowa Darter (fish species) was found during the fish survey through MBI, which is a higher quality fish species.

One Monitoring Committee member is asking to step down from their position and the NBWW is looking for an interested member/entity to take their place. Please contact Ashley Strelcheck, astrelcheck@lakecountyil.gov if interested in this position.

Adrienne Nemura, Geosyntec, gave a NARP Workplan update to the meeting attendees. Based on the water quality monitoring data collected in the watershed, Geosyntec has recommended a targeted data collection in the watershed to better understand the physical features and nutrient investigation at specific NBWW monitoring sites. This targeted data collection (approach) will help determine if Geosyntec's hypotheses of the watershed characteristics could be causing some of the impairment issues. The hypotheses include low dissolved oxygen (DO) due to algal growth, limited reaeration due to low flows and small slopes, high sediment oxygen demand, macroinvertebrate respiration might deplete DO levels. The NARP Workplan will address two alternatives, a targeted approach NARP and a full NARP

(extensive evaluation) throughout the watershed. The NBWW and Geosyntec spoke with the Illinois EPA and they are open to this approach.

d. Old Business – None

e. New Business – Public Comment Policy

Brandon Janes and Ashley Strelcheck presented the NBWW approved (July 14, 2021) Public Comment Policy to the NBWW General Membership for comments or questions. There were no comments or questions.

4. Guest Speakers

a. Changes in Phosphorus Loads in the Illinois River Basin from 1980s to 2019

Gregory McIsaac, PhD, Associate Professor Emeritus, University of Illinois Urbana Champaign, Natural Resources and Environmental Sciences

Gregory McIsaac gave a presentation on Phosphorus loads in the Illinois River Basin (1980s to 2019). Gregory conducted research on nitrogen and phosphorous cycling and transport in rivers, and taught watershed hydrology until retiring in 2009. Gregory continues to conduct research on riverine nitrate and phosphorus, including contributing to the Illinois Nutrient Loss Reduction Strategy. The Total Phosphorus estimates for major rivers draining Illinois based on data since 1980 shows increases in but one major river (Green River) between 2015 – 2019. The research objective is to identify and quantify factors contributing to increased phosphorus loads in the Illinois River. In the presentation, Gregory went through the phosphorus trends in the Illinois River waterways at different time periods. From this information, the waterway characteristics (topography, flow, etc...) were assessed to help understand the impact on the phosphorus results.

Questions/Answers

Question: If chloride is liberating phosphorus that is already in the system, then wouldn't you expect to decrease in time (if the load of phosphorus will run out?)?

Answer: Yes, but there is a lot of phosphorus in those sediments.

Question: Is there a way to know how many livestock are in the watershed (for consideration) and how that has been changed over time?

Answer: Yes, I (Greg) believe that is a USGS data set that is going to be assessed for watershed characteristics. It has not been analyzed yet.

Question: Does the amount of data impact the results (of the model)?

Answer: Yes, if there are less than 5-6 samples in a year that information is not used as part of our research.

Question: Are you (Greg) looking at the effects of climate change (increased rainfall/runoff)?

Answer: Yes, the USGS river flow data is being used and that shows an increase in flows (precipitation).

b. Coal-Tar-Based Pavement Sealcoat, and PAHs

Thomas Ennis, PE, LEED AP, Env SP, Sustainability Officer, Watershed Protection Department, City of Austin, Texas

Tom gave an overview presentation on what polycyclic aromatic hydrocarbons (PAHs) are, where they can be found, harmful effects (benzopyrene), and bringing awareness to alternatives to PAHs. Review of NBWW's 2018 -2019 monitoring data showed the highest stream sediment data for PAHs as 210 parts per million (ppm), which is about 9 times more than the probable effects concentration. Coal tar is an industrial by-product of the coking of coal for the manufacturing of steel. Coal tar sealant payments have about 70,000 mg/kg of PAHs, while asphalt-based sealants have about 50-150 mg/kg of PAHs. Tom explained the alternatives to using coal-tar sealants and how to check with your contractor to make sure coal-tar sealants are not going into your driveway. PAHs are on an upward trend for lakes in the U.S.

based on USGS data. A common incident is there are fish kills around the country when coal-tar sealants are curing and a rain event occurs washing the PAHs into the nearby waterbodies and can be extremely potent even with some dilution. Coal tar sealants are found more commonly in the United States east of the Rocky Mountains. PAHs pose a threat to human health (dust, contact) and environmental health (water quality, aquatic life, atmospheric contributions) in a variety of ways. Currently, there are 25 million U.S. citizens under a coal tar sealant ban and approximately 8 out of the 24 NBWW members have Village bans. Passing a coal-tar sealant ban requires citizen discontent, supporting research, community circumstances, non-profit support and sponsor attention.

Questions/Answers

Question: Can you tell the difference between an asphalt-based vs. coal tar sealant driveway (even after some wear?)?

Answer: You may be able to smell the difference (the creosote) on a warm day on a coal tar sealant surface. There is a simple test on the Coal Tar Free America website (<https://coaltarfreeusa.com/2013/06/video-of-coffee-tea-test-for-coal-tar-sealants/>) for a coffee tea test as well.

Question: Can you tell the difference between engineered crumb rubber (ECR) and asphalt-based pavement?

Answer: Yes, the results of the ECR will be similar to the coal-tar sealant results in the above coffee tea test.

Question: Any evidence of PAHs in stormwater ponds?

Answer: Yes, Minnesota did a calculation that concluded that it would cost more than one billion dollars to clean out the PAHs out of all their stormwater ponds.

Question: In terms of environment and infrastructure, how much should the coal tar issue be prioritizing by the federal government? On the scale of urgency, how does it compare to renewable energy?

Answer: As far as prioritizing, understanding Toxic Substances Control Act (TSCA 2016) reaffirmed the role of communities to lead the nation in reducing toxins. If the risk factor, concentration, dose, is similar to a hazardous waste cleanup that would be a measure of where it is prioritized. If you do not address an issue where your children interact and play, then addressing longer term issue doesn't make sense.

5. Watershed Project Updates or Other Announcements/Discussion

The 2021 Virtual Deicing Workshops will take September 28 through October 12 on various dates. Registration is now open and there will be webinars for parking lots and sidewalks, and public roads. Please see the meeting flyer in the meeting minutes for more information. The NBWW is a sponsor of this workshop which will be advertised to snow and ice management professionals of Northeast Illinois.

John Quail provided an update on the Chicago River Council to the NBWW general membership. Friends of the Chicago River has been coordinating the Chicago River Council and trying to find unique solutions to our unique watershed. There will be small working groups (mapping analysis, funding and policy initiatives) in the near future. The next meeting is tentatively set for October (outdoors) at the Big Marsh Ford Calumet Environmental Center. More information can be found at: www.chicagoriver.org.

Ashley Strelcheck gave an update for the East Skokie Drainage District (ESDD) & the Park District of Highland Park: The ESDD has completed the Lake Forest Streambank Stabilization Project Phase I implementation and are currently working on the Illinois EPA Section 319 grant final report. The Park District of Highland Park is finishing up the construction of the North Pond riparian buffer and vegetated swales on The Preserves property as part of their Illinois EPA Section 319 grant. Robyn Flakne gave an update of the Village of Glenview's Pine Street Streambank Stabilization and Open Space Illinois EPA Section 319 grant project. The

majority of construction of the project is complete and a couple native plants and trees still need to be planted.

Ashley Strelcheck gave a brief overview of the North Branch Chicago River Watershed-Based Plan Update efforts. SMC continues to compile programmatic (watershed-wide) and site-specific action plan recommendations within the watershed-based plan, which provides guidance to watershed stakeholders for implementing projects and programs. SMC hopes to present the draft watershed-based plan at the November 10, 2021 NBWW General Membership Meeting. SMC just sent out the FY2022 Watershed Management Board (WMB) Request for Proposals for Lake County; the application deadline is October 1, 2021.

6. Member Remarks

Mike Warner, Gewalt Hamilton wanted to introduce Karolina Cho, Gewalt Hamilton, who will be attending NBWW General Membership meetings in the future and representing Gewalt Hamilton and Villages they represent.

7. Next NBWW General Membership Meeting (November 10, 2021)

8. Adjournment – 3:10 pm

First Motion: Matt Farmer, Village of Northbrook

Second Motion: Matt Ueltzen, LCFPD

Approved by voice NBWW Membership roll call vote (see results below)

North Branch Chicago River Watershed Workgroup Meeting Attendees

Name	Organization
Abel Haile	Illinois Environmental Protection Agency
Albert Ettinger	Illinois Sierra Club
Alvaro Melara	Representative of Congressman Schneider
Ashley Strelcheck	Lake County Stormwater Management Commission
Bill Rickert	Village of Green Oaks
Brian Joyce	City of Lake Forest
Brian Valleskey	Geosyntec Consultants, Inc.
Brigitte Berger-Raish	Village of Wilmette
Bud Reed	East Skokie Drainage District
Byron Kutz	City of Lake Forest
Camilla Dadey	West Skokie Drainage District Chairperson
Catherine Sbarra	Lake County Board District 19
Christine Davis	Illinois Environmental Protection Agency
Chuck Bodden	North Shore Water Reclamation District
Claire Kissane	DuPage County
Damon Cederberg	Libertyville Township
Debra Kutska	Cook County
Dudley Onderdonk	Glencoe Park District
Eric Otto	Forest Preserve District of Cook County
Gregory Mclsaac	University of Illinois Urbana Champaign - Natural Resources and Environmental Sciences
Jacob Jozefowski	Lake County Stormwater Management Commission
James Tigue	Village of Glencoe
Jeff Laramy	Lake County Stormwater Management Commission
Jeff Nehila	Deerfield Park District
Jeff Weiss	Buffalo Creek Clean Water Partnership
John Quail	Friends of the Chicago River

Name	Organization
Julie Hewitt	Illinois Nutrient Research & Education Council
Justin Vick	Metropolitan Water Reclamation District of Greater Chicago
Karolina Cho	Gewalt Hamilton Associates, Inc.
Katie Andersen	League of Women Voters of Lake Forest & Lake Bluff
Layla Werner	City of Lake Forest
Leonard Dane	Deuchler Environmental, Inc.
Linda Englund	Illinois Sierra Club
Mac McKavanagh	Union One West Fork Drainage District
Mary Beth Falsey	DuPage County
Mary Matthews	League of Women Voters of Lake Forest & Lake Bluff
Matt Farmer	Village of Northbrook
Matt Ueltzen	Lake County Forest Preserve District
Melanie Rummel	City of Lake Forest Alderman, Ward 2
Michael Warner	Gewalt Hamilton Associates, Inc.
Mike Zemaitis	Lake County Division of Transportation
Neekita Joshi	Gewalt Hamilton Associates, Inc.
Rabin Bhattarai	University of Illinois Urbana-Champaign, Dept. of Agricultural & Biological Engineering
Ramesh Kanapareddy	City of Highland Park
Rebecca Connolly	Stantec
Rob Flood	North Shore Water Reclamation District
Robyn Flakne	Village of Glenview
Rosemary Heilemann	Illinois Sierra Club
Scott Twait	Illinois Environmental Protection Agency
Tara Lester	Naval Facilities Engineering Command (NAVFAC)
Thomas Lee	Arceil
Thomas Polzin	Hey & Associates
Tom Ennis	Watershed Protection Department, City of Austin, Texas
Tracy Gastfield	Vernon Township
Trevor Sample	Illinois Environmental Protection Agency
Vern Witthuhn	Strand Associates, Inc.
Wyatt Cummings	Village of Glenview

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NBWW
NBWW-Expense-Revenue Activity
For Period Dec. 2020 - Nov. 2021

500 W Winchester Rd
 Libertyville, Illinois 60048
 Phone 847 377 7700
kwoolford@lakecountyil.gov

Ending Balance					
Revenues Received		Date Received	Date Deposited	NBWW Ratification	
Carryover	\$ 86,720.17				
Engineering Resources Associates	\$ 200.00	12/7/2020	12/11/20	2/10/21	
Christopher Burke Engineering	\$ 200.00	2/11/2021	2/11/2021	3/10/21	
City of Evanston	\$ 1,008.00	2/12/2021	2/12/2021	3/10/21	
Hey and Associates	\$ 200.00	2/17/2021	2/19/21	3/10/21	
Village of Northfield	\$ 2,848.00	2/17/2021	2/19/21	3/10/21	
Union One Middle Fork Drainage District	\$ 1,000.00	2/24/2021	2/24/2021	3/10/21	
Village of Lincolnshire	\$ 1,742.00	2/25/2021	3/4/21	3/10/21	
Village of Riverwoods	\$ 1,901.00	2/22/2021	2/22/2021	3/10/21	
Village of Skokie	\$ 1,895.00	3/4/2021	3/11/21	3/10/21	
Libertyville Township	\$ 2,732.00	3/3/2021	3/3/2021	3/10/21	
Village of Winnetka	\$ 2,376.00	3/8/2021	3/11/21	4/15/21	
City of Highland Park	\$ 6,031.00	3/8/2021	3/11/21	4/15/21	
City of North Chicago	\$ 1,218.00	3/8/2021	3/11/21	4/15/21	
City of Park City	\$ 1,462.00	3/8/2021	3/11/21	4/15/21	
Green Oaks	\$ 2,804.00	3/10/2021	3/12/21	4/15/21	
Cook County & Cook County DOTH	\$ 2,114.00	3/11/2021	3/18/21	4/15/21	
Cook County & Cook County DOTH	\$ 1,415.00	3/11/2021	3/18/21	4/15/21	
LCDOT	\$ 1,152.00	3/12/2021	3/18/21	4/15/21	
NSWRD	\$ 35,817.00	3/16/2021	3/18/21	4/15/21	
SMC	\$ 4,008.00	2/28/2021	2/28/2021	4/15/21	
ESDD	\$ 1,000.00	3/25/2021	4/1/21	4/15/21	
Deerfield Park District	\$ 200.00	3/23/2021	4/1/21	4/15/21	
Village of Glencoe	\$ 2,095.00	3/22/2021	4/1/21	4/15/21	
Village of Deerfield	\$ 12,083.00	3/19/2021	4/1/21	4/15/21	
MWRD of Greater Chicago	\$ 200.00	3/18/2021	4/1/21	4/15/21	
Stantec	\$ 200.00	3/31/2021	3/31/2021	4/15/21	
Friends of the Chicago River	\$ 200.00	4/12/2021	4/16/21	5/12/21	
West Deerfield Township	\$ 1,341.00	4/16/2021	4/23/21	5/12/21	
Village of Bannockburn	\$ 2,162.00	4/16/2021	4/23/21	5/12/21	
Village of Niles	\$ 1,104.00	4/21/2021	4/23/21	5/12/21	
Gewalt Hamilton Associates	\$ 200.00	4/22/2021	4/22/21	5/12/21	
Lake Forest Openlands	\$ 200.00	4/23/2021	4/29/21	5/12/21	
Union One West Fork Drainage District	\$ 1,000.00	4/27/2021	4/29/21	5/12/21	
Village of Wilmette	\$ 2,893.00	4/27/2021	4/29/21	5/12/21	
Village of Glenview	\$ 8,028.00	4/29/2021	5/7/21	5/12/21	
Village of Morton Grove	\$ 2,586.00	4/30/2021	5/7/21	5/12/21	
City of Lake Forest	\$ 8,456.00	5/11/2021	5/13/21	6/9/21	
Village of Northbrook	\$ 7,749.00	4/13/2021	5/20/21	6/9/21	
ILM	\$ 200.00	6/11/2021	6/11/21	7/14/21	
Town of Vernon (Vernon Township)	\$ 1,235.00	6/15/2021	6/25/21	7/14/2021	
LCFPD	\$ 942.00	6/21/2021	6/25/21	7/14/2021	
CCFP	\$ 2,521.00	7/19/2021	7/23/21	8/11/2021	
Woods & Wetlands Group/Sierra Club	\$ 200.00	7/25/2021	7/25/21	10/13/2021	
Deuchler Engineering	\$ 200.00	8/30/2021		9/8/2021	
Other Contributions Received					
Total Received:	\$ 129,118.00				
Total Received + Carryover	\$ 215,838.17				

Expenditures Paid:		Date Received	Paid Date	NBWW Ratification	
DRSCW	\$ 2,198.72	03.22.2021	4/2/2021	4/15/21	
SMC Admin Services	\$ 5,978.50	03.02.2021	4/1/2021	4/15/21	
SMC NARP Services	\$ 1,385.00	03.02.2021	4/1/2021	4/15/21	
NSWRD	\$ 4,867.00	03.22.2021	4/9/2021	4/15/21	
Geosyntec	\$ 9,451.00	04.09.2021	4/9/2021	4/15/21	
Geosyntec	\$ 6,598.00	05.17.2021	5/27/2021	6/9/21	
Geosyntec	\$ 14,927.75	06.07.2021	6/14/2021	7/14/2021	
NSWRD	\$ 6,243.61	6/28/2021	7/12/2021	7/14/2021	
MBI	\$ 3,873.46	7/6/2021	7/12/2021	7/14/2021	
SMC Admin Services	\$ 5,529.00	7/9/2021	7/12/2021	7/14/2021	
SMC NARP Services	\$ 789.50	7/9/2021	7/12/2021	7/14/2021	
Geosyntec	\$ 3,280.00	7/16/2021	7/23/2021	8/11/2021	
MBI	\$ 12,848.86	8/18/2021	9/9/2021	9/8/2021	
Geosyntec	\$ 6,578.25	8/18/2021	9/10/2021	9/8/2021	
Geosyntec	\$ 3,703.75	9/15/2021	10/8/2021	10/13/2021	
MBI	\$ 7,575.91	9/30/2021	10/22/2021	10/13/2021	
Geosyntec	\$ 3,190.00	10/18/2021			
Deicing Workshop Sponsorship	\$ 250.00	10/18/2021	10/21/2021		
Total Expenditures Paid	\$ 99,268.31				
Revenue-Expenditures					\$ 116,569.86



PLEASE REMIT PAYMENT TO:
Geosyntec Consultants, Inc.

900 Broken Sound Parkway NW, Suite 200
Boca Raton, Florida 33487-3575 USA
Tel (561) 995-0900 Fax (561) 995-0925

NORTH BRANCH WATERSHED WORKGROUP
500 WEST WINCHESTER ROAD
SUITE 201
LIBERTYVILLE, IL 60048

Invoice #: 181449438
Invoice Date: 10/12/2021
Project: MOW5552
Project Name: NBWW PRENARP WORKPLAN

For Professional Services Rendered through transaction date: 9/26/2021

IF YOU HAVE QUESTIONS ABOUT THIS INVOICE, PLEASE CONTACT BRIAN VALLESKEY AT (224) 634-0562

Professional Services	\$3,190.00
Current Invoice	\$3,190.00

****Amount Due This Invoice **** **\$3,190.00**

Statement

Prior Billings	\$44,538.75	Project Budget	\$64,100.00
Current Invoice	\$3,190.00	Expended to Date	\$47,728.75
Billed To Date	\$47,728.75	Contract Balance	\$16,371.25
Paid To Date	\$40,835.00	**Amount Due This Invoice **	\$3,190.00

Phase : 01) WORKPLAN DEVELOPMENT

<u>Class / Employee Name</u>	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
PROJECT ADMINISTRATOR				
EDER, TERRI	09/13/2021	0.25	68.00	17.00
	09/14/2021	0.25	68.00	17.00
Total: PROJECT ADMINISTRATOR		0.50		34.00
PROFESSIONAL				
QASEM, KAROLINE	08/30/2021	1.25	168.00	210.00
	09/21/2021	0.75	168.00	126.00
Total: PROFESSIONAL		2.00		336.00
SENIOR PROFESSIONAL				
MAHAJAN, RISHAB	08/30/2021	0.75	215.00	161.25
	09/01/2021	0.50	215.00	107.50
	09/14/2021	1.00	215.00	215.00
	09/21/2021	0.75	215.00	161.25
	09/22/2021	0.50	215.00	107.50
VALLESKEY, BRIAN	08/30/2021	0.75	215.00	161.25
	08/31/2021	0.50	215.00	107.50
	09/01/2021	1.00	215.00	215.00
	09/02/2021	0.50	215.00	107.50
	09/03/2021	0.50	215.00	107.50
	09/13/2021	0.50	215.00	107.50
	09/16/2021	1.00	215.00	215.00
	09/17/2021	0.50	215.00	107.50
	09/21/2021	1.00	215.00	215.00
	09/22/2021	1.00	215.00	215.00
	09/23/2021	0.50	215.00	107.50
	09/24/2021	0.50	215.00	107.50
Total: SENIOR PROFESSIONAL		11.75		2,526.25
PRINCIPAL				
NEMURA, ADRIENNE	08/30/2021	0.50	235.00	117.50
	09/21/2021	0.75	235.00	176.25
Total: PRINCIPAL		1.25		293.75
Total Phase : 01) WORKPLAN DEVELOPMENT		Phase Labor		3,190.00
Total Project Labor				3,190.00
Total Project: MOW5552 -- NBWW PRENARP WORKPLAN				3,190.00



The Conservation Foundation

10S404 Knoch Knolls Road
Naperville, IL 60565

Invoice

Date	Invoice #
9/23/2021	12691

Bill To

North Branch Watershed Workgroup
Attn: Ashley Strelcheck
Lake County Stormwater Management Commiss
500 W. Winchester Road
Libertyville, IL 60048

P.O. Number	Terms
2021 Deicing Sponsor	Due on receipt

Quantity	Description	Rate	Amount
1	Sponsorship of the 2021 NE IL Deicing Workshops Sales Tax - 7%	250.00 7.00%	250.00 0.00
Thank you for your support		Total	\$250.00

North Branch Chicago River Watershed Workgroup (NBWW) Budget

Budget of Accounts - Revenues Expenditures

	Projected FY2021	Actual FY2021
REVENUE		
Dues - Membership dues	\$128,006.00	\$129,118.00
WMAG Local Grant - Awarded Jan. 2018		
Carryover Addition	\$86,720.17	\$86,720.17
		\$75.82
Total Revenue	\$214,726.17	\$215,913.99
EXPENSES		
2021		
Consultant (SMC) - Administrative & Technical Support	\$ 19,000.00	\$ 11,507.50
<i>IPS Model Contribution - DRSCW</i>	<i>FY20 Contract</i>	\$ 2,198.72
Consultant (SMC) - IPS & NARP Assistance	\$ 5,000.00	\$ 2,174.50
Education	\$ 300.00	\$ 250.00
Consultants - MBI Year 3, Part 2; Year 4, Part 1 Contract	\$ 50,695.05	\$ 24,298.23
Contractuals - NSWRD - Water Column Chemistry Monitoring & Sediment Analysis	\$ 46,327.50	\$ 11,110.61
Consultant - Preliminary NARP Workplan	\$ 64,100.00	\$ 47,728.75
MBI IPS Model - Training	\$ 8,230.62	
Total Expenses	\$ 193,653.17	\$ 99,268.31
Unexpended Carryover/Reserve	\$21,073.00	\$ 116,645.68

APPENDIX A: NORTH BRANCH CHICAGO RIVER WATERSHED WORKGROUP SCORECARD

Year Assessed: 2021

The following strategy tables are specific program activities that can be included as measurable goals to meet the minimum control measures (MCM) of the NPDES ILR40 permit requirements. "Corresponding MS4 MCM" column should be reflected as measurable goals in the Stormwater Management Program Plan (SMPP) as well as annual facility inspection report. "Water Quality (WQ) Requirement" supports Part 5 of the NPDES ILR40 Permit.

Strategy 1: Monitoring and Water Quality Assessment

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
1	Review monitoring program to assess site locations, data parameters and budget.	WQ Monitoring Requirement	Completed as part of the current NBWW Monitoring Strategy Document; last revised 11/10/21.
1	Consult with outside experts to ensure the most efficient use of resources in data collection, and that appropriate parameters are being monitored to achieve the goals of the NBWW.	WQ Monitoring Requirement	Consulted with Chris Yoder (MBI) during development of the Monitoring Strategy and QAPP Document. Continue to consult with MBI & other local workgroups about monitoring strategies.
1	Make data available for watershed planning and to Workgroup members.	WQ Monitoring Requirement	2018 - 2019 Bioassessment Report was approved by the NBWW Monitoring Committee & Executive Board. The report is available on the NBWW website: https://www.nbwwil.org/plans-and-reports/
1	Use monitoring results to identify the extent of the impaired waterbodies and utilize water quality models to prioritize remediation efforts.	WQ Monitoring Requirement	MBI incorporated NBWW's 2018-2019 monitoring data into the Integrated Prioritization Systems (IPS) Model. In 2022, the NBWW staff will be trained to utilize the IPS model and pursuing a Nutrient Assessment & Reduction Plan (NARP).
1	Analyse monitoring results to pinpoint the sources of pollution.	WQ Monitoring Requirement	
1	Compile the data in a format to be included in an annual report prepared to satisfy the National Pollutant Discharge Elimination System (NPDES) water quality monitoring permit reporting requirements of its Workgroup members.	WQ Monitoring Requirement	Third year of monitoring data (2020) was compiled and submitted to the Illinois EPA in March 2021. Fourth year of monitoring data (2021) will be compiled and submitted to the Illinois EPA March 2022.
1	Use the monitoring results to evaluate effectiveness of watershed projects and initiatives.	WQ Monitoring Requirement	MBI incorporated NBWW's 2018-2019 monitoring data into the Integrated Prioritization Systems (IPS) Model. In 2022, the NBWW staff will be trained to utilize the IPS model and pursuing a Nutrient Assessment & Reduction Plan (NARP).
1	Develop and maintain appropriate water quality models of the watershed to assess attainment of the Workgroup's long-term goals.	WQ Monitoring Requirement	

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Year Assessed: **2021**

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
2	Determine data needs of Workgroup members.	N/A	Data needs requested from NBWW meetings throughout 2021 at Executive Board, Monitoring Committee and quarterly General Membership meetings.
2	Identify other databases and evaluate the ease of interfacing with them, cost to create and maintain them, and the frequency that members query the database.	N/A	NBWW completed a Notice of Intent (NOI) Spreadsheet for NBWW members to use for their NPDES permitting. This spreadsheet allows NBWW members to search for their appropriate monitoring location and sort by parameter. All of the NBWW stream monitoring program is on this NOI spreadsheet.

Strategy 2: Regulatory Relationships and Requirements

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
1	Meet one-on-one with regulators.	B.7	NBWW staff have continued to coordinate with the Illinois EPA and local watershed workgroup staff on NPDES permit requirements and upcoming regulatory deadlines.
1	Develop a chloride reduction strategy that includes a training component.	C.10	<i>Chloride reduction strategy not completed.</i> NBWW sponsored a regional De-icing Workshop that consisted of 5 webinars that targeted Northeastern Illinois stakeholders. This effort was a large partnership with local watershed workgroups, winter maintenance vendors, local counties and the Salt Smart Collaborative.

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Year Assessed: **2021**

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
1	Attend other workgroup meetings or trainings to stay informed about what other groups are doing and proposed regulatory changes.	B.3	Many NBWW Board members as well as Lake County Stormwater Management Commission (SMC) staff attend the Des Plaines River Watershed Workgroup (DRWW) meetings on a regular basis and the DRSCW's general membership meetings.
1	Create an annual report to satisfy the NPDES water quality monitoring component of the annual permit reporting requirement.	WQ Monitoring Requirement	Third year of monitoring data (2020) was compiled and submitted to the Illinois EPA in March 2021. Fourth year of monitoring data (2021) will be compiled and submitted to the Illinois EPA March 2022.
2	Identify MS4s who are leaders in the field.	B.6	Continued to identify and engage with MS4s and other watershed entities that are active with the NBWW and/or are implementing BMPs in their communities.
2	Organize annual tour/training event of BMP and green infrastructure projects/sites.	A.4	Due to the restrictions during the COVID-19 pandemic, NBWW was unable to host an annual site tour in August 2021 but did have educational speakers at the four general membership meetings in 2021.
2	Provide support and attendance at Municipal meetings as requested, for technical support.	B.4	NBWW provided workgroup documentation to several municipalities and workgroup members to bring to their Boards and Committees. NBWW continues to offer technical support as requested.
2	Identify MS4 permit requirements that the NBWW can provide supplemental services to address.	N/A	NBWW maintains a workplan and corresponding scorecard with specific program activities that can be included as measurable goals to meet the minimum control measures (MCM) of the NPDES ILR40 permit requirements. "Corresponding MS4 MCM" column should be reflected as measurable goals in the Stormwater Management Program Plan (SMPP) as well as annual facility inspection report. "Water Quality (WQ) Requirement" supports Part 5 of the NPDES ILR40 Permit.

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Year Assessed: **2021**

Strategy 3: Water Quality Improvement Initiatives

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
1	Create a list of potential water quality improvement initiatives.	B.7	SMC (with the support of NBWW) is updating the 2008 North Branch Chicago River watershed-based plan which will have site-specific and programmatic action plan recommendations for the watershed. The watershed-based plan update is anticipated to be completed by the end of 2021.
1	Provide education about the benefits of these initiatives.	A.6	NBWW hosted four general membership meetings in 2021 (02/10, 05/12, 08/11, 11/10) that included presentations on water quality improvement initiatives such as watershed education and outreach, water quality monitoring efforts, nutrient assessment and reduction plan, etc...
1	Encourage municipalities to adopt at least one initiative.	B.7	<i>Not completed.</i>
1	Attend board meetings when these initiatives are discussed.	B.4	<i>Not completed.</i>
1	Provide input on funding sources and strategies, education and marketing materials.	A.6	NBWW has provided a forum for the North Branch Planning Committee at General Membership meetings for updating the 2008 watershed-based plan.
2	Develop a list of high-priority watershed improvement projects based on the action plan recommendations from the North Branch Chicago River Watershed-Based Plan.	B.7	SMC is currently updating the 2008 North Branch Chicago River Watershed-Based Plan (2021). NBWW is pursuing an IPS Model training and completing a Preliminary NARP Workplan by the end of 2021.
2	Investigate and list all possible sources of funding, including in-kind services and local sponsor contributions to implement watershed improvement projects.	B.7	NBWW is pursuing an IPS Model training and completing a Preliminary NARP Workplan by the end of 2021. These tools will determine high-priority watershed improvement projects.
2	Inquire how other groups are funding watershed projects.	B.7	NBWW members and staff have continued to coordinate with local watershed workgroups about funding opportunities for watershed projects.

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Year Assessed: **2021**

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
2	Assist in identifying and coordinating multi-jurisdictional implementation projects.	B.6	NBWW is pursuing an IPS Model training and completing a Preliminary NARP Workplan by the end of 2021. These tools will determine high-priority watershed improvement projects.
2	Enlist watershed experts to review funding proposals for projects and offer advice to applicants, helping them to develop better, more competitive proposals.	B.7	NBWW members have reached out to Lake County SMC for various grant funding proposals in 2021.
2	Request funding and/or in-kind services and/or draft permit language.	B.7	In November 2018, SMC was awarded an Illinois EPA Section 319 Grant for updating the 2008 North Branch Chicago River Watershed-Based Plan. NBWW has provided a forum for the North Branch Planning Committee at General Membership meetings for updating the 2008 watershed-based plan. September 2021, SMC sent MS4 Workgroup members updated NPDES permit language related to the watershed workgroups for public comment.
2	Manage and administer the funding sources.	N/A	Providing in-kind support (monitoring data) for the update of the 2008 North Branch Chicago River Watershed-Based Plan.
2	Develop educational/outreach materials or other support services for the project.	A.1	The 2020 annual newsletter was distributed to the watershed members and stakeholders in January 2021 with information on NBWW's accomplishments and monitoring activities. NBWW is currently drafting the 2021 annual newsletter which will be distributed in 2022.
2	Implement the Chloride Reduction Strategy.	C.10	<i>Not completed. See Strategy 2, Objective 1.</i>

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Year Assessed: **2021**

Strategy 4: Leadership and Engagement

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
1	Allow every member to express and employ their talents, ideas, experiences, skills and expertise.	B.7	Every NBWW meeting is open to the public and attendees are encouraged to participate.
1	Sponsor quarterly guest speaker series to educate about pressing watershed issues and to identify collaborative opportunities to address them.	B.3	See Strategy 3, Objective 1: General Membership Meetings.
1	Collaborate with existing groups to sponsor a variety of Watershed awareness events (i.e. stream/lake clean ups, canoe trips, Earth Day events, De-icing events, etc.) with an education component.	B.7	NBWW sponsored a regional De-icing Workshop that consisted of 5 webinars that targeted Northeastern Illinois stakeholders. This effort was a large partnership with local watershed workgroups, winter maintenance vendors, local counties and the Salt Smart Collaborative.
2	Maintain an informative and useful web site.	A.6	https://www.nbwwil.org/
2	Host events and speaking engagements with public officials in order to update them on crucial watershed issues and identify partnership opportunities.	B.7	NBWW and SMC have been engaging all watershed stakeholders (including public officials) throughout the process of updating the North Branch Chicago River Watershed-Based Plan.
2	Reach out to additional public-sector stakeholders – townships, park districts, drainage districts, school districts etc. – to inform them of the Workgroup’s activities and invite them to become Workgroup members.	B.7	Ongoing (meeting announcements, SMC social media outreach, word-of-mouth through members).
2	Reach out to private sector stakeholders – developers, consultants, homeowner and lake owner associations, large property owners, farmers, churches – to inform them of the Workgroup’s activities and invite them to partner with us.	B.7	Ongoing (meeting announcements, SMC social media outreach, word-of-mouth through members).
2	Recognize individuals and groups who are making substantial contributions to the Workgroup’s Vision.	B.7	At the four 2021 NBWW General Membership meetings, the agenda includes a “Watershed Project Updates or Other Announcements/Discussion” section which recognizes individuals and groups implementing projects in the watershed and discussion items for the members.

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Year Assessed: **2021**

Work Plan Objective	Action Steps	Corresponding MS4 MCM	NBWW Status
3	Develop, adopt, and disseminate an annual work plan, annual budget and annual report on Workgroup accomplishments.	B.7	A work plan covering 2018-2023 was developed in 2018. The budget is reviewed at each NBWW meeting. An annual newsletter (2021) is being prepared and will be distributed in 2022.
3	Review member dues annually, and send out notices for dues payment.	N/A	Completed for 2021 (45 workgroup members).
3	Review Workgroup Bylaws.	B.7	Bylaws are reviewed annually and updated as needed. The NBWW Bylaws were updated in July 2021.
3	Organize and facilitate four quarterly general member meetings each year.	B.3	NBWW hosted four general membership meetings in 2021 (02/10, 05/12, 08/11, 11/10).
3	Review scorecard.	B.7	Completed November 2021.