

# Water Connects Everyone and Everything on Earth!



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## September 24th, 2014

La Festival del Agua los ninos  
El aqua conecta todos ya todo el mundo (Spanish)

Carwada Ciyaraha Biyaha ee Caruurfa.  
Qof kasta iyo wax kasta oo Dhulka laga kor helo Waxaa isku Xira Biyo. (Somali)

Dej rub tib neeg thiaab txhua yam hauv ntiab teb los ua (Hmong)  
Koob tsheej txog tib neeg li dej

## **Introduction**

The 17<sup>th</sup> annual Metro Children's Water Festival, held on September 24<sup>th</sup>, 2014, at the Minnesota State Fairgrounds, is designed to provide students with hands-on opportunities to learn about such things as where water goes when the toilet gets flushed, how tiny bugs can serve as an indicator of water quality, the importance of wetlands, and basic water science. More than 1,200 fourth grade students from each of the seven Metropolitan counties will be in attendance to celebrate our most precious resource - water.

This booklet has been printed to assist educators in contacting key people associated with the Festival. Included in the packet are the schedule of events, a brief description of each learning station, the agency hosting the learning station, and an educator's evaluation form. **Please note: an 8" x 10" photo of your class at the Festival will be mailed to you upon receipt of your evaluation!**

## **A Word of Acknowledgement**

This festival would not have been possible without the dedication of the Festival Planning Committee. Their devotion to the education of children is the backbone of this Festival. The Metro Conservation Districts wish to recognize and extend their thanks to: **Madeline Seveland & Charlie Sawdey**; Carver County Water Management; **Bart Biernat**, Anoka County Environmental Services; **John Bilotta**, University of Minnesota Extension; **Jessica Collin Pilarski**, Washington County Public Health and Environment; **Wendy Griffin**, Washington Conservation District; **Nanette Geroux**, Metropolitan Council Environmental Services **Bill Olsen & Paula Liepold**, Dakota County Environmental Resources Department; **Stacey Lijewski**, Hennepin County Department of Environmental Services & Hennepin Conservation District; **Janine Kohn**, Minnesota Department of Natural Resources (Project WET); **Teri Heyer**, United States Forestry Service; **Michaela Neu**, Mississippi Watershed Management Organization; **Jean Buckley**; Ramsey County Public Health.

# Sponsors

The Children's Water Festival would not have been possible without generous donations from local sponsors. Their interest in protecting our valuable water resources is evident. Local contributions were received from:

## Financial Sponsors

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### **\$2500 - \$5000**

Flint Hills Resources

### **\$2000 - \$2500**

### **\$1000 - \$1999**

Capitol Region Watershed District

Dakota County

Lower Minnesota River Watershed District

Hennepin County Conservation District

### **\$500 - \$999**

Andersen Windows

Carver County Water Management Organization

Minnehaha Creek Watershed District

Minnesota Pollution Control Agency

Riley Purgatory Bluff Creek Watershed District

Vermillion River Watershed Joint Powers Organization

Xcel Energy

### **\$200 - \$499**

Basset Creek Watershed Management Organization

Emmons and Oliver Resources

WENCK & Associates

South Washington Watershed District

Nine Mile Creek Watershed District

### **\$100 - \$199**

Shakopee Mdewakanton Sioux Community

## Food/Supply Donations

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Afton Apple Orchard

Brueggers Bagels

Mississippi Watershed Management

Organization (*water footprint display*)

USDA Forest Service (*Science Museum shows*)

## Busing Reimbursements

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South Washington Watershed District

Ramsey Washington Metro Watershed District



# Learning Stations

- A**     **Well, Well, Well!** – Join a professional well driller and a University of MN geologist as they demonstrate how to drill a well and show that it’s not all “dirt” down below.  
*Gary Meyer, MN Geological Survey and Mark Barber, Braun Intertec*
- B**     **Mystery of the Disappearing Waterfall** – Discover how a great waterfall moved from Saint Paul to Minneapolis and set the stage for two cities to be born.  
*Lyndon Torstenson and Abby Olson, Mississippi National River and Recreation Area (National Park Service), [www.nps.gov/miss](http://www.nps.gov/miss)*
- C**     **The House that Jack Built** – Where does our drinking water come from? How does it get to our tap? Learn about wells and water systems in “The House that Jack Built.”  
*Richard Thron, Mantyla Well Drilling, Inc.*
- D**     **FLUSH! The Wastewater Story** – Where does the water go when the toilet gets flushed? Students will learn how wastewater is treated when it goes down the drain.  
*Patti Craddock, Central States Water Environment Association, [www.cswea.org](http://www.cswea.org)*
- E**     **Streams and Wetlands** – Simulate a moving stream and the forces of water. Learn about wetlands and the role of vegetation in keeping our water clean.  
*Brian Davis, Lanya Ross, and Jim Larsen, Metropolitan Council Environmental Services, [www.metrocouncil.org](http://www.metrocouncil.org)*
- F**     **The Watershed!** – Do you live in a watershed? Learn what a watershed is, your “watershed address” and what we can do in our watershed communities to protect water.  
*Terrie O’Dea and Emily Resseger, Metropolitan Council Environmental Services, [www.metrocouncil.org](http://www.metrocouncil.org)*
- G**     **Stream Creatures and Water Quality** – There is an amazing variety of life our streams, lakes, and wetlands. Aquatic insects respond to changes on the land and in the water, see how they can tell us about water quality.  
*Cassie Champion and Scott Haire, Metropolitan Council Environmental Services, [www.metrocouncil.org](http://www.metrocouncil.org)*
- H**     **Just Passing Through** – How does vegetation keep rainwater clean as it runs off into lakes and streams? Students will act out plants and raindrops to find out!  
*Krista Jensen, MN Department of Natural Resources - Fort Snelling State Park, [www.mdnr.gov/fortsnelling](http://www.mdnr.gov/fortsnelling)*
- I**     **The Water Beneath Our Feet** – Using a “slice of the earth” model, students will learn about aquifers and the movement of water and water pollution through the ground.  
*Shelby Emerson, Washington Conservation District, [www.mnwcd.org/cleanwater](http://www.mnwcd.org/cleanwater)*
- J**     **A Model Stream** – Learn how streams determine their path. See how changes in stream water flow and stream bank condition can quickly alter how a stream behaves.  
*Kim Laing and Eileen Campbell, Minnesota Pollution Control Agency, [www.pca.state.mn.us](http://www.pca.state.mn.us)*
- K**     **World Water Monitoring Challenge** – Students perform water quality monitoring tests to discover how water quality is measured.  
*John Friel and volunteers from Central States Water Environment Association (CSWEA) Minnesota Section Young Professionals, SEH, Inc., [www.sehinc.com](http://www.sehinc.com)*




- L**      **Macro Madness** – Students will learn about aquatic insects and what they can tell us about the health of a stream.  
*Maggie Karschnia, MN Wetland Health Evaluation Program, Dakota County, [www.mnwhep.org](http://www.mnwhep.org)*
- M**      **Blue Thumb - Planting for Clean Water** – Explore the ways that homes and yards affect the water cycle and what features could be used at home to catch and clean stormwater runoff. *Jenn Radtke, East Metro Water Resource Education Program, Washington Conservation District, [www.mnwcd.org](http://www.mnwcd.org)*
- N**      **Water Quality - Is Your Understanding Crystal Clear?** – Test water transparency, or clarity, of water samples collected from nearby rivers. Compare results, figure out why water clarity changes from one watershed to another, and what it tells us about the health of our rivers. *Laurie Sovell, Minnesota Pollution Control Agency, [www.pca.state.mn.us/csmp](http://www.pca.state.mn.us/csmp)*
- O**      **How Do Fish Get Mercury?** – Students will learn the sources of mercury and how it gets into our lakes and rivers, then play a game on how mercury bioaccumulates and biomagnifies.  
*Bruce Monson and Carol Hubbard, Minnesota Pollution Control Agency, [www.pca.state.mn.us](http://www.pca.state.mn.us)*
- P**      **Adopt A River's Crime Lab** – Trash the land, trash the water! Learn to identify trash found in rivers, how to detect where it came from, and how to keep it out of our public waters.  
*Paul Nordell, Minnesota Department of Natural Resources, [www.mndnr.gov/adoptriver](http://www.mndnr.gov/adoptriver)*
- R**      **Aquatic Nuisance Species** – Learn about aquatic nuisance species - how to prevent them and how they affect marine life.  
*Barry Berg and colleagues, US Coast Guard Auxiliary, <http://cgaux.org/>*
- S**      **Down the Dirty Drain** – How come our streets don't become rivers when it rains? Learn where stormwater goes and what it might carry with it if we are not careful.  
*Kate Clayton, Friends of the Mississippi River, [www.fmr.org](http://www.fmr.org)*
- T**      **Water Pollution on Trial** – In this court, the rights of water are protected! Students serve as jury and decide the outcome of a Minnesota water pollution court case.  
*Joshua Burman, Minnesota Pollution Control Agency, [www.pca.state.mn.us](http://www.pca.state.mn.us)*
- V**      **Minnesota Fish and their Habitats** – Learn why fish are shaped and colored the way they are and how that relates to the habitats where they live.  
*Mark Nemeth, Minnesota Department of Natural Resources, Fisheries and Wildlife, [www.dnr.state.mn.us](http://www.dnr.state.mn.us)*
- W**      **Water Jeopardy Game Show** – Team up with your classmates to test your knowledge on water resources in this game-show style session where "Who Wants to be a Millionaire" meets "Jeopardy."  
*Colleen Schoenecker and Liz Kaufenberg, Minnesota Pollution Control Agency, [www.seek.state.mn.us](http://www.seek.state.mn.us)*
- X**      **Catch a Wave!** – Learn how energy can move through water without having the water move and what determines how big and fast a wave will be.  
*John Bushey, Riley Lake Engineering, Inc.*
- Y**      **UN-mixing Colors** – Students will use chemistry and water to discover the colors mixed in water-soluble markers. Paper chromatography mixes science with art beautifully.  
*Jane Snell Copes, Science Outside the Box*

- Z**            **Mosquitoes!** – Learn about the mosquitoes life cycle and how human activity can contribute to the mosquito impact.  
*Mike McLean, Monica Wickelgren and Scott Grant, Metropolitan Mosquito Control District, [www.mmcd.org](http://www.mmcd.org)*
- AA**           **A Cloud in a Jar?** – How water and weather are related.  
*Laura Betker, KARE 11, [www.kare11.com](http://www.kare11.com)*
- BB**           **Water in Trees - How does it get up 100 feet?** – Trees are important to clean water because they help keep soil out of our streams, shade streams and lakes, and are a place for many bugs to live that fish and reptiles need to eat. But in order to be healthy, trees need water too. How do they take in that water and get it all the way up to the top of the tree? What are the unique properties of water what help make this happen?  
*Teri Heyer, USDA Forest Service, [www.fs.usda.gov/urban-connections](http://www.fs.usda.gov/urban-connections)*
- CC**           **H2O for Life - bringing water to students around the world** – Water around the world is in serious trouble! How can your actions become part of the solution for the global water crisis? Explore the water cycle, and share ideas that can help change the world. Join H2O for Life in a service-learning activity that can change attitudes and behaviors while changing lives for students at a school in a developing country.  
*Patty Hall, H2O for Life , [www.H2Oforlifeschools.org](http://www.H2Oforlifeschools.org)*
- DD**           **Farmers: Stewards of Land and Water** – Students will actively investigate the connection between water and agriculture. Hands-on activities will build awareness for the conservation methods farmers use to protect the land and water.  
*Sue Knott, Minnesota Department of Agriculture, <http://www.mda.state.mn.us/kids.aspx>*
- Stage 1**      **WATER!** – Learn about water and the water cycle in this fascinating program!  
*Science Museum of Minnesota, [www.smm.org](http://www.smm.org)*
- Stage 2**      **morning**  
**Singing Rivers** – Listen, sing and learn about the health of Minnesota's great rivers!  
*Scott Sparlin*
- Stage 2**      **afternoon**  
**Garbage Game** – Rivers and streams are connected to the oceans. Learn how long it takes common items to decompose in the environment, and how debris in the water affects marine life.  
*Barry Berg and colleagues, US Coast Guard Auxiliary, <http://cqaux.org/>*
- Stage 3**      **Our Water Rocks Superstar Show!** – Rosetown Playhouse performs Our Water Rocks Superstar Show! Directed by Margot Olsen. Join Looney Loon at the Our Water Rocks Superstar Show where contestants share their knowledge of water resources through songs and other talents. Topics include water conservation, watershed, drinking water and more. Rosetown's mission is to strengthen community through inclusive, playful theatre experiences. Productions and programs occur in venues in Roseville and St. Paul but participants come from all over the metro region. This friendly, intergenerational community theatre provides many different theatre experiences for all ages, interests and talents. Puppets created by Image Puppets.  
*Rosetown Playhouse, [www.rosetownplayhouse.org](http://www.rosetownplayhouse.org) and on Facebook*

## Classroom Schedule – 2014 Metro Children’s Water Festival

ID	School/Teacher	9:00 – 9:30	9:30 – 10:00	10:00 – 10:30	10:30 – 11:00	11:00 – 11:30	11:30 – 12:00	12:00 – 12:30	12:30 - 1:00	1:00 – 1:30	1:30 – 2:00	2:00 – 2:30
1	Central, Erz		R	 <b>Science Museum</b> <i>of Minnesota</i> <b>Stage 2</b>		 <b>LUNCH</b>	N	S	WA	L		
2	Central, Evenski		M				J	L	P	WA		
3	Central, Schrupp		A				E	Stage 3	K	WA		
4	Falcon Heights, Heille		E				A	B	WA	G	CC	R
5	Falcon Heights, Schroeder		G				H	Stage 3	S	Stage 2	I	B
6	Rahn, Hill		L				WA	T	M	A		
7	Rahn, Tofte		O				Stage 3	Stage 2	G	B		
8	Royal Oaks, Anderson	WA	Stage 2				Stage 2	Z	E	O		
9	Royal Oaks, Birkel	E	Stage 2				BB	R	D	C		
10	Royal Oaks, Gonzalez	A	Stage 2				D	W	T	DD		
11	Woodbury, Melcher Anderson		WA**				Stage 2	E	X	CC	DD	
12	Woodbury, Nett		**	Stage 3	K	J		F	L			
13	Woodbury, Thompson		**	Stage 2	S	T		J	O			
14	Crooked Lake, Boekhoff				C	O		Stage 3	WA	DD		
15	Crooked Lake, Brezinka				WA	B		Z	Stage 2	CC		
16	Crooked Lake, Norton				W	WA	 <b>LUNCH</b>	 <b>Science Museum</b> <i>of Minnesota</i> <b>Stage 2</b>	S	Stage 3	J	
17	Johathan, Burtzel		**	Stage 3	B	D			I	WA**		
18	Johathan, Hicks		**	Stage 2	AA	S			E	**		
19	Johathan, Lazzari		WA**	V	I	F			K	**		
20	Johathan, Schladweiler		**	CC	Y	G			M	WA**		
21	Loring, Mantras			R	Stage 3	X			P	G		
22	Loring, Pincus			AA	Stage 2	H			X	F		



ID	School/Teacher	9:00 – 9:30	9:30 – 10:00	10:00 – 10:30	10:30 – 11:00	11:00 – 11:30	11:30 – 12:00	12:00 – 12:30	12:30 - 1:00	1:00 – 1:30	1:30 – 2:00	2:00 – 2:30
23	Madison, Harvey			B	J	 <b>Science Museum</b> <i>of Minnesota</i> <b>Stage 2</b>		 <b>LUNCH</b>	Stage 2	WA		
24	Madison, Kolodziejczyk			WA	P				O	H		
25	Madison, Schrempp			C	N				BB	Stage 3		
26	Sioux Trail, Batterman		WA**	K	CC				Z	Stage 2		
27	Sioux Trail, Mulliken			Stage 2	O				C	N		
28	Sky Oaks, Berg			I	T				W	R	P	WA**
29	Sky Oaks, Bryant			BB	R				J	W	M	WA**
30	Sky Oaks, Taylor			G	V				Stage 2	T	Y	WA**
31	St. John, Memattathil			L	X				A	D	Stage 3	Stage 2
32	Adams, Brott			WA	F				I	Y	J	
33	Adams, Jimenez			P	Stage 2	F	R	H				
34	Adams, Jordan			WA	L	I	M	BB	 <b>Science Museum</b> <i>of Minnesota</i> <b>Stage 2</b>			
35	Adams, Nelson			Y	Stage 3	V	G	I				
36	Burroughs, Blossey			N	Stage 2	W	Z	R				T
37	Burroughs, Moyer			Z	R	P	O	Stage 2				K
38	Burroughs, Pederson			X	BB	R	WA	C				F
39	Burroughs, Frober			T	Z	WA	Y	CC				X
40	St. Pascal, Mattimiro				H	K	WA	X				C
41	Glendale, Donohue				WA	A	K	H				
42	Glendale, Kettler				E	M	Stage 3	P				
43	Glendale, Kohout				WA	C	L	N				
44	Glendale, Steinberg				M	WA	CC	Y				

**Note:** Learning stations are 25 minutes long, followed by a 5-minute passing period. Science Museum is 55 minutes long. Classes marked \*\* are scheduled to arrive or leave on the quarter hour. Classes marked WA\*\* can go to the Water Arcade for a partial period.

## Presenter Schedule - 2014 Metro Children's Water Festival

ID	Presenter	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00	11:00 - 11:30	11:30 - 12:00	12:00 - 12:30	12:30 - 1:00	1:00 - 1:30	1:30 - 2:00	2:00 - 2:30
A	Well, Well, Well!	Royal Oaks, Gonzalez *	Central, Schrup *			Glendale, Donohue	Falcon Heights, Heille		St. John, Memattathil	Rahn, Hill		
B	Mystery of the Disappearing Waterfall			Madison, Harvey *	Johathan, Burtzel	Crooked Lake, Brezinka		Falcon Heights, Heille		Rahn, Tofte		Falcon Heights, Schroeder
C	The House that Jack Built			Madison, Schrempp *	Crooked Lake, Boekhoff *	Glendale, Kohout		Burroughs, Pederson	Sioux Trail, Mulliken	Royal Oaks, Birkel		St. Pascal, Mattimiro
D	FLUSH! The Wastewater Story					Johathan, Burtzel	Royal Oaks, Gonzalez		Royal Oaks, Birkel	St. John, Memattathil		
E	Streams and Wetlands	Royal Oaks, Birkel *	Falcon Heights, Heille *		Glendale, Kettler *		Central, Schrupp	Woodbury, Melcher Anderson	Royal Oaks, Anderson	Johathan, Hicks		
F	The Watershed!					Johathan, Lazzari			Adams, Jimenez	Woodbury, Nett	Loring, Pincus	Burroughs, Pederson
G	Stream Creatures and Water Quality		Falcon Heights, Schroeder *	Sky Oaks, Taylor *		Johathan, Schladweiler	Adams, Nelson		Rahn, Tofte	Falcon Heights, Heille	Loring, Mantras	
H	Just Passing Through				St. Pascal, Mattimiro *	Loring, Pincus	Falcon Heights, Schroeder	Glendale, Donohue		Madison, Kolodziejczyk	Adams, Jimenez	
I	The Water Beneath Our Feet			Sky Oaks, Berg *	Johathan, Lazzari	Adams, Jordan		Adams, Nelson	Adams, Brott	Johathan, Burtzel	Falcon Heights, Schroeder	
J	A Model Stream				Madison, Harvey	Woodbury, Nett	Central, Evenski		Sky Oaks, Bryant	Woodbury, Thompson	Adams, Brott	Crooked Lake, Norton
K	World Water Monitoring Challenge			Sioux Trail, Batterman	Woodbury, Nett	St. Pascal, Mattimiro	Glendale, Donohue		Central, Schrupp	Johathan, Lazzari		Burroughs, Moyer
L	Macro Maddness		Rahn, Hill *	St. John, Memattathil *	Adams, Jordan		Glendale, Kohout	Central, Evenski		Central, Erz	Woodbury, Nett	
M	Blue Thumb - Planting for Clean Water		Central, Evenski *		Glendale, Steinberg *	Glendale, Kettler	Adams, Jordan		Rahn, Hill	Johathan, Schladweiler	Sky Oaks, Bryant	
N	Water Quality - Is Your Understanding Crystal Clear?			Burroughs, Blossy *	Madison, Schrempp		Central, Erz	Glendale, Kohout		Sioux Trail, Mulliken		
O	How Do Fish Get Mercury?		Rahn, Tofte *		Sioux Trail, Mulliken	Crooked Lake, Boekhoff	Burroughs, Moyer		Madison, Kolodziejczyk	Royal Oaks, Anderson	Woodbury, Thompson	
P	Adopt A River's Crime Lab			Adams, Jimenez *	Madison, Kolodziejczyk	Burroughs, Moyer		Glendale, Kettler	Central, Evenski	Loring, Mantras	Sky Oaks, Berg	
R	Aquatic Nuisance Species		Central, Erz *	Loring, Mantras	Sky Oaks, Bryant Burroughs, Moyer	Burroughs, Pederson		Burroughs, Blossy Royal Oaks, Birkel		Sky Oaks, Berg Adams, Jimenez		Falcon Heights, Heille
S	Down the Dirty Drain				Woodbury, Thompson	Johathan, Hicks		Central, Erz	Falcon Heights, Schroeder	Crooked Lake, Norton		
T	Water Pollution on Trial			Burroughs, Frober *	Sky Oaks, Berg	Woodbury, Thompson		Rahn, Hill	Royal Oaks, Gonzalez	Sky Oaks, Taylor		Burroughs, Blossy

ID	Presenter	9:00 - 9:30	9:30 - 10:00	10:00 - 10:30	10:30 - 11:00	11:00 - 11:30	11:30 - 12:00	12:00 - 12:30	12:30 - 1:00	1:00 - 1:30	1:30 - 2:00	2:00 - 2:30
V	Minnesota Fish and their Habitats			Johathan, Lazzari	Sky Oaks, Taylor	Adams, Nelson						
W	Water Jeopardy Game Show				Crooked Lake, Norton *	Burroughs, Blossy		Royal Oaks, Gonzalez	Sky Oaks, Berg	Sky Oaks, Bryant		
X	Catch a Wave!			Burroughs, Pederson *	St. John, Memattathil	Loring, Mantras		St. Pascal, Mattimiro	Woodbury, Melcher Anderson	Loring, Pincus		Burroughs, Frober
Y	UN-mixing Colors			Adams, Nelson *	Johathan, Schladweiler		Burroughs, Frober	Glendale, Steinberg		Adams, Brott	Sky Oaks, Taylor	
Z	Buzzzz . . . Mosquitoes!			Burroughs, Moyer *	Burroughs, Frober		Burroughs, Blossy	Royal Oaks, Anderson	Sioux Trail, Batterman	Crooked Lake, Brezinka		
AA	A Cloud in a Jar?			Loring, Pincus	Johathan, Hicks							
BB	Water in Trees - How does it get up 100 feet?			Sky Oaks, Bryant *	Burroughs, Pederson		Royal Oaks, Birkel	Adams, Jordan	Madison, Schrempp			
CC	H2O for Life			Johathan, Schladweiler	Sioux Trail, Batterman		Glendale, Steinberg	Burroughs, Frober		Woodbury, Melcher Anderson	Falcon Heights, Heille	Crooked Lake, Brezinka
DD	Farmers: Stewards of Land and Water									Royal Oaks, Gonzalez	Woodbury, Melcher Anderson	Crooked Lake, Boekhoff
Stage 1	WATER! (Science Museum)			11 classes 307 students			11 Classes 306 students		11 Classes 311 students		11 Classes 317 students	
Stage 2	Singing Rivers		Royal Oaks, Anderson Royal Oaks, Birkel Royal Oaks, Gonzalez	Woodbury, Thompson Johathan, Hicks Sioux Trail, Mulliken	Loring, Pincus Adams, Jimenez Burroughs, Blossy							
	Garbage Game						Woodbury, Melcher Anderson Royal Oaks, Anderson	Burroughs, Moyer Rahn, Tofte	Sky Oaks, Taylor Madison, Harvey	Falcon Heights, Schroeder Sioux Trail, Batterman	Crooked Lake, Brezinka	St. John, Memattathil
Stage 3	Our Water Rocks Superstar Show!			Woodbury, Nett Johathan, Burtzel	Loring, Mantras Adams, Nelson		Rahn, Tofte Glendale, Kettler	Central, Schrupp Falcon Heights, Schroeder		Crooked Lake, Boekhoff Madison, Schrempp	Crooked Lake, Norton St. John, Memattathil	
WA	Water Arcade	Royal Oaks, Anderson *	Woodbury, Melcher Anderson ** Johathan, Lazzari ** Souix Trail, Batterman **	Madison *, Kolodziejczyk Adams, Brott * Adams, Jordan *	Crooked Lake, Brezinka Glendale, Donohue * Glendale, Kohout *	Crooked Lake, Norton Burroughs, Frober Glendale, Steinberg	Rahn, Hill Burroughs, Pederson St. Pascal, Mattimiro		Central, Erz Falcon Heights, Heille	Central, Evenski Central, Schrupp Madison, Harvey	Crooked Lake, Boekhoff Johathan, Burtzel Johathan, Schladweiler	Sky Oaks, Berg Sky Oaks, Bryant Sky Oaks, Taylor

Classes marked \* may arrive late. Classes marked \*\* are scheduled for one half period only.

# Arcade

## **US Forest Service -**

This year the US Capitol Christmas tree is coming from the Chippewa National Forest in northern Minnesota. The 80-foot tall white spruce tree will need lots of ornaments to decorate it. So make an ornament with personal pledge on what you can do to save water.

Contact – Teri Heyer, Urban Connections, USDA Forest Service, Region 9

**Water Footprint** – Learn about water conservation and then write your own personal pledge to reduce your water footprint.

Contact – Michaela Neu, Mississippi Watershed Management Organization

**Minnesota Sea Grant Invasive Species** - Come visit this learning table and learn about MN's most wanted invasive species and how to protect our lakes and rivers from them.

Contact - Marte Kitson, National Park Service Liaison, MN Sea Grant College Program

**Bubble-ology** - Learn about the surface tension of bubbles as you disappear into one!

Contact – Nanette Geroux, Met Council Environmental Services

**Permeability Plunko** - Learn about soil permeability through this larger than life display.

Contact – Britt Gangeness, MN Pollution Control Agency

**Groundwater Flow Model** – Come see how water flows, in various directions, through various types of soil found beneath the earth's surface.

Contact – Nanette Geroux, Met Council Environmental Services

**Storm-water Runoff Labyrinth** –Test your knowledge as you play this labyrinth.

Contact – Bill Olsen, Dakota County

**Water Festival EnviroMagnets** – Create your own environmental masterpiece through this arts and crafts hands-on activity.

Contact – Nanette Geroux, Met Council Environmental Services

**H2O Olympics** – Try some fun water experiments that show the adhesive and cohesive properties of water.

Contact – Nanette Geroux, Met Council Environmental Services

**Fish Prints** - Learn about fish senses, and make your very own print or postcard of different fish species!

Contact – MN Department of Natural Resources, MinnAqua



# Metro CWF Dictionary


English	Spanish	Swahili
Algae	Algas	Mwani or Ugozi
Aquifer	Acuifero	Chemichemi
Atmostphere	Ambiente	Anga
Clean Water	El Agua Limpia	Maji safi
Cloud	Nube	Wingu
Condensation	Condensación	Condensation
Erosion	Erosión	Mmomonyoko
Fish	Pescado	Samaki
Evaporation	Evaporación	Mvuke
Freshwater	De agua dulce	Maji Safi
Groundwater	Las aguas subterráneas	Maji ya Chini ya ardhi
Lake	Lago	Ziwa
Ocean	Océano	Bahari
Oxygen	Oxígeno	Oksijeni
Pollution	Polución	Uchafuzi wa mazingira
Rain	Lluvia	Mvua
River	Río	Mto
Snow	Nieve	Theluji
Storm	Tormeta	Dhoruba
Tree	Árbol	Mti
Wastewater	Agua residualies	Maji machafu
Water	Agua	Maji
Waterfall	Cascada	Maporomoko ya maji
Well	Pozo	Shimo
Wetland	Humedales	Ardhi oevu

\*Are there other vocab words or languages you'd like to see included on this page? Let us know!! [www.metrocwf.org](http://www.metrocwf.org).


RANDALL AVE.

Bus Exit ↑

(Family & Nursing)



RESTROOM

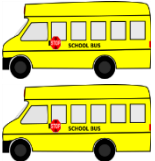


Bus Stop:  
Lunch Drop Off


Stage 1  
Science Museum

O P Z

Bus Parking





Parking for Presenters & Volunteers



DD

A

Unloading-Loading

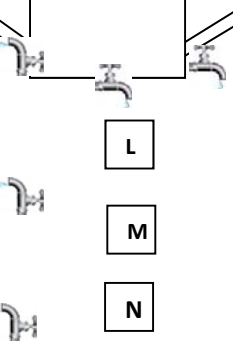

WRIGHT AVE.

F G H I J K

E D C B

L M N

Home Improvement  
WATER ARCADE  
Registration & Information

# Learning Station Map

Fine Arts  
(Bldg used rainy day only)

Q Door

Y AA

4-H

R

Stage 2

WOMEN

BB

CC

Door

V

MENT




X

Stage 3

W

S

Education  
RESTROOM  
(Bldg used rainy day only)

SNELLING AVE.

DAN PATCH AVE. ←

Not to scale.



## Children's Water Festival

### Evaluation for Teachers

**Please complete this evaluation** and return it to the Registration Desk in the Water Arcade in the Home Improvement Building, **OR** give it to your Class Guide, **OR** detach and mail to the address on the back. You will receive an 8" x 10" photograph of your class at the Festival after your evaluation form is returned. Please be candid: your responses will help us to improve the Festival.

**1. Teachers, without looking at this booklet or other resources, can you clearly identify and remember the 2014 Metro CWF Theme from the following list?**

- A. Conserve Our Water – It's All We Have on Earth!
- B. Water, Water Everywhere – A Resource for You and Me!
- C. Water Connects Everyone and Everything on Earth!
- D. Hurray for H<sub>2</sub>O - All Living Things Rely on Water!

**2. Will you repeat and use the theme back in your classroom as a way to summarize the program or initialize further discussions with your students?**

Yes                  No                  Maybe                  How?

**3. After attending the Festival, (in brief words) how will you incorporate lessons, activities, or topics from the Metro CWF into your classroom?**

**4. Which Learning Stations were most effective in teaching your students about water issues? Why? Was it was the content? The presenter? Both?**

**5. Which Learning Stations were not effective? Why? Was it the content? The presenter?**

**6. What did you like best about the Festival?**

**7. How could the Festival be improved in the future?**

**8. Will the Children's Water Festival help you achieve any State or school district science standards or other educational objectives/goals? If yes, which ones?**

Yes                  No                  Don't Know Yet

# Water Connects Everyone and Everything on Earth!



[MetroCWF.org](http://MetroCWF.org)

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Use first  
class  
postage

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