Questions

- Can voluntary resident action significantly impact P reduction?
- What level of participation is needed?
- What will it take and how do we measure it?
- Is it replicable and scalable?
- Is it cost-effective?

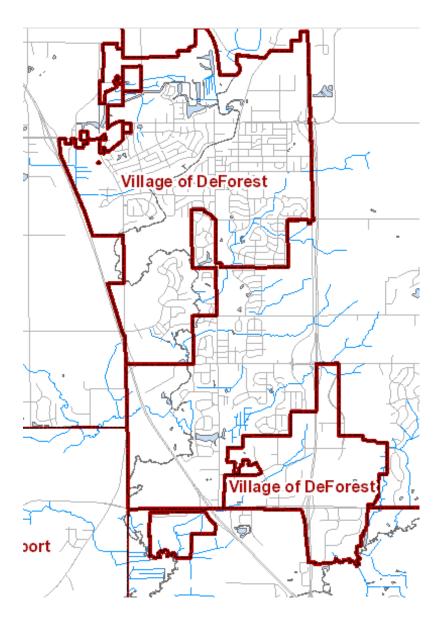




Table 1: Explanation of individual goals

GOAL	DESCRIPTION
Leaf-free street gutters*	Leaves are largely absent from the street within up to five (5) feet of the curb
Participation	Evidence inferring homeowner action (i.e., pledging, yard sign display, and/or evidence of street raking)
Attitude change	Homeowners accept responsibility for removing leaves from the street in front of their properties, and they feel empowered to make a difference
Awareness	Residents understand the connection between leaves in the street and phosphorus reaching and harming the lakes. They are also aware of leaf-management options available to them.
Communication	Homeowners talk to their neighbors about the issue and importance of taking action, and/or seek out additional information.

* The "gold standard" among the identified goals and evaluative metrics.





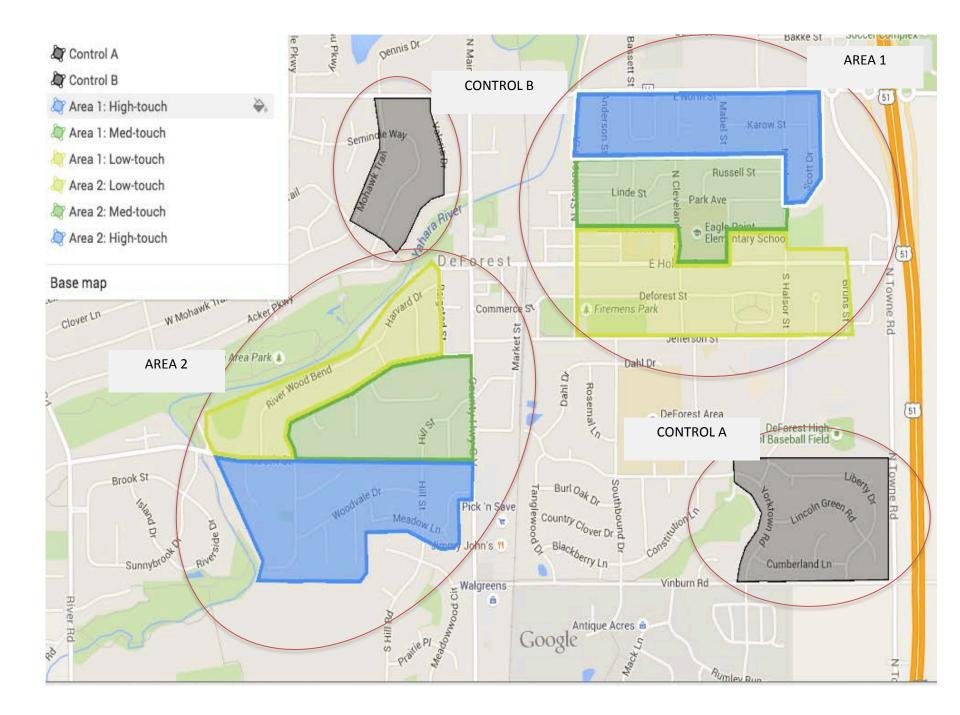


Table 2: Outreach descriptions by zone

Outreach	Zone 1 (Low touch) *	Zone 2 (Med touch)*	Zone 3 (High touch)*	Purpose
Letter with action request	\checkmark	\checkmark	\checkmark	Encourage commitment
Pledge-for-prizes invite		\checkmark	\checkmark	Encourage commitment
Email reminders, tips and		\checkmark	\checkmark	Provide prompt to act
prize announcements				
Yard sign (optional)		\checkmark	1	Provide prompt to act
Leaflet reminder to pledge		\checkmark	\checkmark	Provide prompt to act
Personal visit			\checkmark	Encourage commitment
Raking assistance (optional)			1	Establish convenience
Exit survey (delivered and online)	1	1	1	Evaluate incentives and barriers to participation
Leaflet reminder to complete survey	1	1	1	Provide prompt to act

* Households are split into three groups: low-touch, medium-touch and high-touch. Low-touch households receive the least amount of encouragement and contact, and high-touch households receive the most.

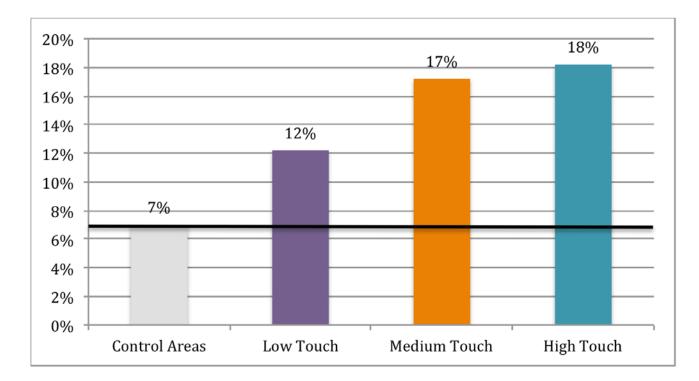


Table 6: Leaves removed and phosphorus diverted by area

Area	Overall, Averaged Participation ¹	Leaves Removed ² (lbs.)	Leached P diverted* (lbs.) ³	Potential leaves removed if 100% Participation (lbs.)	Potential leached P diverted if 100% Participation (lbs.)
Controls	7%	1,171	0.20	14,085	2.55
High Touch	18%	3,406	0.78	21,567	4.96
Medium Touch	17%	2,444	0.56	15,404	3.54
Low Touch	12%	1,475	0.34	16,219	3.73
H+M+L	16%	7,326	1.68	53,190	10.43

Municipality ¹	Assumed total curb lenth (ft.) ²	weight of leaves per ft. of curb (lbs.) ³	P diverted from 8 rakings at 100% particip. (lbs.) ⁺	P diverted from 8 rakings at 20% particip. (lbs.)	Total 20-yr present worth cost based on 20% particip. ⁵
Village of DeForest	340,000	0.126	72	14	\$77,280
City of Madison	7,688,700	0.126	1,608	322	\$1,777,440
		0.200	2,544	509	\$2,809,680
		0.400	5,088	1,018	\$5,619,360
City of Middleton	602,775	0.126	128	26	\$143,520
		0.200	200	40	\$220,800
		0.400	400	80	\$441,600
City of Fitchburg (3/4)	560,400	0.126	117	23	\$126,960
		0.200	186	37	\$204,240
		0.400	372	74	\$408,480
City of Monona	292,350	0.126	64	13	\$71,760
		0.200	96	19	\$104,880
		0.400	192	38	\$209,760
Village of Waunakee	335,400	0.126	72	14	\$77,280
		0.200	112	22	\$121,440
		0.400	224	44	\$242,880
City of Stoughton	400,125	0.126	80	16	\$88,320
		0.200	136	27	\$149,040
		0.400	272	54	\$298,080
City of McFarland	238,500	0.126	48	10	\$55,200
		0.200	80	16	\$88,320
		0.400	160	32	\$176,640
Village of Maple Bluff	44,400	0.126	8	2	\$11,040
		0.200	16	3	\$16,560
		0.400	32	6	\$33,120
Village of Shorewood	46,500	0.126	8	2	\$11,040
Hills		0.200	16	3	\$16,560
		0.400	32	6	\$33,120
City of Sun Prairie	290,625	0.126	61	12	\$66,240
(1/3)		0.200	96	19	\$104,880
		0.400	193	39	\$215,280
Village of Cottage	124,350	0.126	26	5	\$27,600
Grove (3/4)		0.200	41	8	\$44,160
		0.400	82	16	\$88,320
Above Communities	10,879,125	0.126	2,270	454	\$2,506,080
Combined		0.200	3,603	721	\$3,979,920
		0.400	7,206	1,441	\$7,954,320

Table 7: Potential impacts and costs if results are extrapolated to other villages andcities draining to the Yahara lakes

P-Diversion Formula

(Curb length of properties participating) Χ (avg. lbs. leaves/curb ft.) Χ (0.00023 leachable-P factor) Х (0.9 lake-delivery factor)

<<FirstName>> <<LastName>> <<AddressLine1>> <<AddressLine2>> <<City>>, <<State>> <<ZipCode>>

September 3, 2015

Dear <<FirstName>>,

Your neighborhood was selected to participate in a fall pilot project to keep leaves out of the street (see map on reverse). The Village of DeForest, Friends of Yahara River Headwaters and the Clean Lakes Alliance ask that you demonstrate your commitment to cleaner rivers and lakes by joining our *Rake-for-the-Lake Challenge*. Please join our community challenge by keeping leaves out of the street gutter in front of your home!

Did you know that leaves in the street are a big problem for our Yahara River and lakes? Wet, decaying leaves clog our storm sewers and release a phosphorus "tea" that feeds algae blooms that can close beaches. The Village of Deforest uses a street sweeper to collect leaves, but the sweeper is limited in its capacity to keep up with the timing and quantity of leaves that accumulate.



How you can help:

- 1. PLEDGE to maintain leaf-free street gutters this fall. This can be done online (www.cleanlakesalliance.com/leaf-pledge) or by returning the enclosed, postage-paid card. Pledge by September 21st for your chance to win lots of great prizes.
- 2. DISPLAY an optional "Love Your Lakes, Don't Leaf Them" yard sign (while supplies last). See pledge card.
- 3. REMOVE all leaves from within 5 feet of the street gutter throughout the season.

What can I do with my leaves?

- Compost leaves in your backyard
- o Use as groundcover to suppress weeds and retain moisture around plantings
- o Mulch them into your lawn using a mower to replenish nutrients
- Drop off leaves at the yard waste collection site on North Stevenson Street (Mon: 5-7pm, Tue: 8-10am & 5-7 pm, Thur: 5-7pm, Sat: 8am-5pm)

Thank you for participating, and we hope you encourage others to do the same! For more information, please call (608)255-1000 or email <u>info@cleanlakesalliance.com</u>. Also, be sure to thank our hard-working volunteers and student interns as they make their way through your neighborhood answering questions, polling opinions, and tracking community participation.

In Partnership,

James Tye Executive Director Clean Lakes Alliance



Dave Broken

Deane Baker Director of Public Services Village of DeForest





Vicky Porter President Friends of Yahara River Headwaters





Join our Rake-for-the-Lake Challenge!



YES!

I pledge to keep leaves out of the street gutter in front of my home. By pledging, I will be entered into a drawing for fun prizes, and will recieve periodic leaf-management tips and program announcements.

Additional Options:



I want to demonstrate my commitment with a free "Love Your Lakes, Don't Leaf Them" yard sign (pictured).**



I would like help connecting with a community-service volunteer or paid provider who can assist with the work.





I want to volunteer to help with this effort!

Name: _____

Email*: _____

*Contact information will only be used for communication related to this fall's pilot and will not be released to any other party. You may remove yourself from the email list at any time.

**Available while supplies last. Signs will be delivered.