Form 1023

(Rev. September 1998) Department of the Treasury Internal Revenue Service

Application for Recognition of Exemption Under Section 501(c)(3) of the Internal Revenue Code

OMB No. 1545-0056

Note: If exempt status is approved, this application will be open for public inspection.

Read the instructions for each Part carefully.

A User Fee must be attached to this application.

If the required information and appropriate documents are not submitted along with Form 8718 (with payment of the appropriate user fee), the application may be returned to you.

Complete the Procedural Checklist on page 8 of the instructions.

Part I Identification of Applicant			
1a Full name of organization (as shown in organizing document)	2 Employer identification number (EIN)		
Minnesota Ground Water Association Fo	undation (If none, see page 3 of the Specific Instructions.) 91: 2033/13		
1b c/o Name (if applicable)	3 Name and telephone number of person		
WRI	to be contacted if additional information is needed		
1c Address (number and street)	Room/Suite		
4779 126th St. North	(651) 426 6122		
1d City, town, or post office, state, and ZIP + 4. If you have a fore see Specific Instructions for Part I, page 3.	eign address, 4 Month the annual accounting period ends December		
White Bear Lake MN 55110-59	5 Date incorporated or formed March 17, 2000		
1e Web site address www.mgwa.org/foundation.htm	6 Check here if applying under section: a 501(e) b 501(f) c 501(k) d 501(n)		
7 Did the organization previously apply for recognition of exempt	lon under this Code section or under any Yes 🔀 No		
8 Is the organization required to file Form 990 (or Form 990-EZ) If "No," attach an explanation (see page 3 of the Specific Instr	P		
9 Has the organization filed Federal income tax returns or exempt organization information returns? \(\sigma\) Yes \(\sigma\) No if "Yes," state the form numbers, years filed, and Internal Revenue office where filed. The organization was not previously in existence. A return will be required if revenues exceed \$25,000.			
10 Check the box for the type of organization. ATTACH A CONFO DOCUMENTS TO THE APPLICATION BEFORE MAILING. (See also Pub. 557 for examples of organizational documents.)	Specific Instructions for Part I, Line 10, on page 3.) See		
a X Corporation—Attach a copy of the Articles of Incorporation approval by the appropriate state official; als	o include a copy of the bylaws.		
b Trust— Attach a copy of the Trust Indenture or Agre	ement, including all appropriate signatures and dates.		
c Association—Attach a copy of the Articles of Association, Constitution, or other creating document, with a declaration (see instructions) or other evidence the organization was formed by adoption of the document by more than one person; also include a copy of the bylaws.			
If the organization is a corporation or an unincorporated association			
I declare under the penalties of perjury that I am authorized to sign this application on including the accompanying schedules and attachments, and to the best of my knowledge.	e it is true, correct, and complete.		
Please Sign Here (Signature) Paule (Type	e or print name and title or authority of signer) (Date)		

Part II Activities and Operational Information

1 Provide a detailed narrative description of all the activities of the organization—past, present, and plannecDo not merely refer to or repeat the language in the organizational documentList each activity separately in the order of importance based on the relative time and other resources devoted to the activity. Indicate the percentage of time for each activity. Each description should include, as a minimum, the following(a) a detailed description of the activity including its purpose and how each activity furthers your exempt purpose;(b) when the activity was or will be initiated; and(c) where and by whom the activity will be conducted.

see Attachment A

2 What are or will be the organization's sources of financial support? List in order of size.

see Attachment B

3 Describe the organization's fundraising program, both actual and planned, and explain to what extent it has been put into effect. Include details of fundraising activities such as selective mailings, formation of fundraising committees, use of volunteers or professional fundraisers, etc. Attach representative copies of solicitations for financial support.

See Attach ment C

Pai	Activities and Operational Information (Continued)	
4	Give the following information about the organization's governing body:	
а	Names, addresses, and titles of officers, directors, trustees, etc.	b Annual compensation
	Paula Berger, 1447 Jefferson Ave, St. Paul 17N 55105	none
	President Patricia Bloomgren, 1114 Meadowview Drive Stillwater MN 5508Z, Treasurer	none
		14.0
	James Lundy, 1405 Arona Street, St. Paul MN 55108, Secretary	none
c	Do any of the above persons serve as members of the governing body by reason of being pub or being appointed by public officials?	lic officials □ Yes 🖾 No
d	Are any members of the organization's governing body "disqualified persons" with respectorganization (other than by reason of being a member of the governing body) or do any of the have either a business or family relationship with "disqualified persons"? (SeeSpecific Instruction Part II, Line 4d, on page 3.)	members tions for
	Does the organization control or is it controlled by any other organization?	□ Ves ⊠ No
5	Is the organization the outgrowth of (or successor to) another organization, or does it have relationship with another organization by reason of interlocking directorates or other factors?. If either of these questions is answered "Yes," explain.	a special ⊠ Yes □ No
	The MGWA Foundation was created to take over and scientific public benefit achvihes of the Mwater Association. Its board appoints the board will continue to assist with conduct of confuences	the educational
	and scientific public benefit activities of the	innesota Ground
	Water Association. It's board appoints of cartineness	and field this et
	will continue to assist with caracter	7 - 7 - 7
6	Does or will the organization directly or indirectly engage in any of the following transaction political organization or other exempt organization (other than a 501(c)(3) organization)(a) gran (b) purchases or sales of assets; (c) rental of facilities or equipment; (d) loans or loan guarante (e) reimbursement arrangements; (f) performance of services, membership, or fundraising sol or (g) sharing of facilities, equipment, mailing lists or other assets, or paid employees? If "Yes," explain fully and identify the other organizations involved.	s with any its; es; eicitations:
		C
7	Is the organization financially accountable to any other organization?	, , ,, ∟ Yes LZ(No ⁄orattach

Par	Activities and Operational Information (Continued)
8	What assets does the organization have that are used in the performance of its exempt function? (Do not include property producing investment income.) If any assets are not fully operational, explain their status, what additional steps remain to be completed, and when such final steps will be taken. If none, indicate "N/A." N/A
9	Will the organization be the beneficiary of tax-exempt bond financing within the next 2 years? Yes 🗵 No
	Will any of the organization's facilities or operations be managed by another organization or individual under a contractual agreement?
	Is the organization a membership organization?
b	Describe the organization's present and proposed efforts to attract members and attach a copy of any descriptive literature or promotional material used for this purpose.
С	What benefits do (or will) the members receive in exchange for their payment of dues?
	If the organization provides benefits, services, or products, are the recipients required, or will they be required, to pay for them?
b	If "Yes," explain how the recipients or beneficiaries are or will be selected. All events will be open to all, however, for scholarships and field mip funding requests there are more requestors than more Example application forms are provided in Appendix A.
13	Does or will the organization attempt to influence legislation?
14	Does or will the organization intervene in any way in political campaigns, including the publication or distribution of statements?

Pa	rt III	Technical Requirements	***************************************
1	create	ou filing Form 1023 within 15 months from the end of the month in which your organization was ed or formed?	X Yes □ No
	If you	answer "Yes," do not answer questions on lines 2 through 6 below.	
2		of the exceptions to the 15-month filing requirement shown below applies, check the appropriate bestion 7.	ox and proceed
	Excep	ptions—You are not required to file an exemption application within 15 months if the organization:	
	Па	Is a church, interchurch organization of local units of a church, a convention or association of church integrated auxiliary of a church. See Specific Instructions, Line 2a, on page 4;	ches, or an
	□ b	Is not a private foundation and normally has gross receipts of not more than \$5,000 in each tax years.	ear; or
	С	Is a subordinate organization covered by a group exemption letter, but only if the parent or supervimely submitted a notice covering the subordinate.	isory organizatio
			•
3		organization does not meet any of the exceptions on line 2 above, are you filing Form 1023 within onths from the end of the month in which the organization was created or formed?	Yes 🗌 No
		s," your organization qualifies under Regulation section 301.9100-2, for an automatic 12-month sion of the 15-month filing requirement. Do not answer questions 4 through 6.	
	If "No,	," answer question 4.	
4	under	answer "No" to question 3, does the organization wish to request an extension of time to apply the "reasonable action and good faith" and the "no prejudice to the interest of the government" ements of Regulations section 301.9100-3?] Yes □ No
		s," give the reasons for not filing this application within the 27-month period described in question 3. pecific Instructions, Part III, Line 4, before completing this item. Do not answer questions 5 and 6.	
	If "No,	," answer questions 5 and 6.	
5	be rec	answer "No" to question 4, your organization's qualification as a section 501(c)(3) organization can cognized only from the date this application is filed. Therefore, do you want us to consider the cation as a request for recognition of exemption as a section 501(c)(3) organization from the date oplication is received and not retroactively to the date the organization was created or formed?] Yes □ No
	If you	ancwor "Vac" to question 5 above and wish to request recognition of section 501/a//4) etables for the	a pariod basissis
6	with th	answer "Yes" to question 5 above and wish to request recognition of section 501(c)(4) status for the he date the organization was formed and ending with the date the Form 1023 application was receif the organization's section 501(c)(3) status), check here □ and attach a completed page 1 of Figure 1 are 1	eived (the effective

orm 10)23 (Rev.	9-98)	Page 6
Part	Ш	Technical Requirements (Continued)	
7 l:	s the c	organization a private foundation?	
[(Answer question 8.) (Answer question 9 and proceed as instructed.)	
		vineste question of the process to measure,	
	-	inswer "Yes" to question 7, does the organization claim to be a private or (Complete Schedule E.)	perating foundation?
F	After a	nswering question 8 on this line, go to line 14 on page 7.	
9 If you answer "No" to question 7, indicate the public charity classification the organization is reque box below that most appropriately applies:			ganization is requesting by checking the
τ	HE O	RGANIZATION IS NOT A PRIVATE FOUNDATION BECAUSE IT QUALIF	FIES:
а		As a church or a convention or association of churches	Sections 509(a)(1)
_		(CHURCHES MUST COMPLETE SCHEDULE A.)	and 170(b)(1)(A)(i) Sections 509(a)(1)
þ		As a school (MUST COMPLETE SCHEDULE B.)	and 170(b)(1)(A)(ii)
C		As a hospital or a cooperative hospital service organization, or a	Continue 500(a)(1)
		medical research organization operated in conjunction with a hospital (These organizations, except for hospital service	Sections 509(a)(1) and 170(b)(1)(A)(iii)
		organizations, MUST COMPLETE SCHEDULE C.)	and Trotox Trotox
-			Sections 509(a)(1)
d		As a governmental unit described in section 170(c)(1).	and 170(b)(1)(A)(v)
е		As being operated solely for the benefit of, or in connection with,	
		one or more of the organizations described in a through d, g, h, or i (MUST COMPLETE SCHEDULE D.)	Section 509(a)(3)
f	П	As being organized and operated exclusively for testing for public	
		safety.	Section 509(a)(4)
g		As being operated for the benefit of a college or university that is	Sections 509(a)(1)
-		owned or operated by a governmental unit. As receiving a substantial part of its support in the form of	and 170(b)(1)(A)(iv)
h		contributions from publicly supported organizations, from a	Sections 509(a)(1)
_		governmental unit, or from the general public.	and 170(b)(1)(A)(vi)
i	X	As normally receiving not more than one-third of its support from gross investment income and more than one-third of its support from	

If you checked one of the boxes a through f in question 9, go to question 14. If you checked box g in question 9, go to questions 11 and 12.

If you checked box h, i, or j, in question 9, go to question 10.

Section 509(a)(2)

Sections 509(a)(1)

and 170(b)(1)(A)(vi)

or Section 509(a)(2)

contributions, membership fees, and gross receipts from activities related to its exempt functions (subject to certain exceptions).

The organization is a publicly supported organization but is not sure

whether it meets the public support test ofh or i. The organization

would like the IRS to decide the proper classification.

_	
Dane	

Fal	lechnical Requirements (Continued)						
10	If you checked box h, i, or j in question 9, has the organization completed a tax year of at least 8 m Yes—Indicate whether you are requesting: A definitive ruling. (Answer questions 11 through 14.) An advance ruling. (Answer questions 11 and 14 and attach two Forms 872-C completed at No—You must request an advance ruling by completing and signing two Forms 872-C and Form 1023.	nd sig	ned.) c hing	them to the			
11	If the organization received any unusual grants during any of the tax years shown in Part IV-AState Expenses, attach a list for each year showing the name of the contributor; the date and the amount description of the nature of the grant.	ment of the	of Regran	evenue and nt; and a brief			
12	If you are requesting a definitive ruling under section 170(b)(1)(A)(iv) or (vi), check her♣ ☐ and:						
	Enter 2% of line 8, column (e), Total, of Part IV-A	Lunit	or "n	ublicly			
	supported" organization) whose total gifts, grants, contributions, etc., were more than the amount eabove.	entere	d on	line 2a			
13							
	a For each of the years included on lines 1, 2, and 9 of Part IV-A, attach a list showing the name of and amount receiv from each "disqualified person." (For a definition of "disqualified person," se ⊗pecific Instructions, Part II, Line 4d, or page 3.)						
b	For each of the years included on line 9 of Part IV-A, attach a list showing the name of and amoun payer (other than a "disqualified person") whose payments to the organization were more than \$5,0 "payer" includes, but is not limited to, any organization described in sections 170(b)(1)(A)(i) through governmental agency or bureau.	00. F	or thi	s purpose,			
14	Indicate if your organization is one of the following. If so, complete the required schedule. (Submonly those schedules that apply to your organization. Do not submit blank schedules)	t Yes	No	If "Yes," complete Schedule:			
			X	^			
	Is the organization a church?			Α			
	Is the organization, or any part of it, a school?		X	<u>B</u>			
	Is the organization, or any part of it, a hospital or medical research organization?		X	С			
	To the organization, or any part of the appear of moderal resource enganization.		Х				
	Is the organization a section 509(a)(3) supporting organization?			D			
	Is the organization a private operating foundation?		X	<u>E</u>			
	Is the organization, or any part of it, a home for the aged or handicapped?		X	F			
	Is the organization, or any part of it, a child care organization?		Х	G			
	Does the organization provide or administer any scholarship benefits, student aid, etc.?	X		Н			
	Has the organization taken over, or will it take over, the facilities of a "for profit" institution?		X				

PartilV Financial Data

Complete the financial statements for the current year and for each of the 3 years immediately before it. If in existence less than 4 years, complete the statements for each year in existence. If in existence less than 1 year, also provide proposed budgets for the 2 years following the current year.

_	A. Statement of Revenue and Expenses						
_	Current tax year 3 prior tax years or proposed budget for 2 years						
	1	Gifts, grants, and contributions received (not including unusual	(a) From 1-1-200 to 6-27-200	(b) <u>2.00.</u> [(c) 2002.	(d)	(e) TOTAL
		grants—see page 6 of the instructions),	2189.18	6000	6000		
	2	Membership fees received	0	0	0		
	_	Gross investment income (see instructions for definition)	0	360	700		
	4	Net income from organization's unrelated business activities not included on line 3	0	0	0		
	5	Tax revenues levied for and either paid to or spent on behalf	0				
Revenue	6	of the organization	0	0	0		
	7	Other income (not including gain or loss from sale of capital	70		•		
		assets) (attach schedule)	0	0	0		
	8	Total (add lines 1 through 7)	2189.18	6360	6700		
	9	Gross receipts from admissions, sales of merchandise or services, or furnishing of facilities in any activity that is not an unrelated business within the meaning of section 513. Include related cost of sales on line 22	0	3000	3500		
	10	Total (add lines 8 and 9)	2189.18	9360	10200		
		Gain or loss from sale of capital assets (attach schedule).	8	O	0		
	12	Unusual grants	٥	0	0		
	13	Total revenue (add lines 10 through 12)	2189.18	9360	10200		
	14	Fundraising expenses		400	500		_
	15	Contributions, gifts, grants, and similar amounts paid (attach schedule)	0	4000	5000		
	16	Disbursements to or for benefit of members (attach schedule)	0	0	0		Tentification vector converses and converse and converses
enses	17	Compensation of officers, directors, and trustees (attach schedule)	0	0	0		
	18	J		1000	1700		
1	19	Interest		00	-		
	20	, ,	<u> </u>		0		
	21		0	8	8		
		Other (attach schedule)	0	<u> </u>			<u>Įmininii mimoromo, ais as abbo</u>
		Total expenses (add lines 14 through 22)	0	5400	6700		
	24	Excess of revenue over expenses (line 13 minus line 23)	2189.18	3960	3500		

Part IV

Expenses

Line 15

Year 2001

\$ 2,500.00	5 Field Trip Scholarships @ \$500
\$ 1,000.00	Hydrogeology Field Camp
\$ 400.00	Children's Water Festival
\$100	Lectures

\$4,000.00

Year 2002

\$ 3,000.00	5 Field Trip Scholarships @ \$500
\$ 1,000.00	Hydrogeology Field Camp
\$ 500.00	Children's Water Festival
\$ 400.00	Ground Water Models for School Visits
\$100	Lectures

\$5,000.00

Part IV Financial Data (Continued)

	B. Balance Sheet (at the end of the period shown)	Current tax year
	Assets	
1	Cash	2189.18
2	Accounts receivable, net	
3	Inventories	
4	Bonds and notes receivable (attach schedule)	
5	Corporate stocks (attach schedule)	
6	Mortgage loans (attach schedule)	
7	Other investments (attach schedule)	
8	Depreciable and depletable assets (attach schedule)	
9	Land	
10	Other assets (attach schedule)	
		2 189.18
11	Total assets (add lines 1 through 10)	2001.10
	Liabilities	
12	Accounts payable	
13	Contributions, gifts, grants, etc., payable	
14	Mortgages and notes payable (attach schedule)	
15	Other liabilities (attach schedule)	
16	Total liabilities (add lines 12 through 15)	
	Fund Balances or Net Assets	
		2189.18
17	Total fund balances or net assets	
18	Total liabilities and fund balances or net assets(add line 16 and line 17) 18	2189.18
If the	ere has been any substantial ohange in any aspect of the organization's financial activities since the own above, check the box and attach a detailed explanation.	and of the period

Schedule H. Organizations Providing Scholarship Benefits, Student Aid, etc., to Individuals

its use, whether a gift or a loan, a or will establish several categorie determines the recipients for each complete to be considered for school study, or other similar purposes ar	and how the availability of the scho is of scholarship benefits, identify category. Attach a sample copy of nolarship grants, loans, or similar b e required to obtain advance appro	t aid, etc., including the terms and con- larship is publicized. If the organization each kind of benefit and explain how any application the organization requi- enefits. (Private foundations that make val of scholarship procedures. See Req	n has establish the organization res individuals to grants for travel, gulations sections
an autobandina	shideet of Mile	thinds available to a nesota Ground Water	4 200 000
scholarship. See	application in A	oppendix A. All this opplications and it was	shadaus in M ill be on
the web site for	+ those in adjaining	e states or provinces.	,
b If you want this application consid organization is a private foundation	ered as a request for approval of gi	rant procedures in the event we determ	nine that the
c If you checked the box in 1b abov	e, check the box(es) for which you	wish the organization to be considered	d.
4945(g)(1)	4945(g)(2)	4945(g)(3)	
there are, or will be, any restriction the prospective recipient or any rela	ns or limitations in the selection pro ative of the prospective recipient. Als	who are eligible recipients? Specifically ocedures based upon race or the empl o indicate the approximate number of el	oyment status of igible indivials.
The student sho	uld be a shuden	t of ground water	- or
a related subjec	t in a school	in Minnesota or a	n.
adioinna state	or province.	such students it	Appadeix A
3 Indicate the number of grants the	organization anticipates making an	nually	/
indicate whether there is or has be the employer. Also indicate whether	en any direct or indirect relationship r relatives of the members of the se	status of the applicant or any relative between the members of the selection election committee are possible recipie	n committee and nts or have been
Employment Stat	us is irrelevant.	Relatives of selection	committee
members are no	t eligible. See A	Hachment D Br Sull	selection
criteria.			
and any procedures it has for taking	ng action if the terms of the grant a		
There are no te	rms. The money	is an acknowledg	gement
of past achieve	ment and potes	ndal.	

Form **872-C**

(Rev. September 1998)

Department of the Treasury Internal Revenue Service

Consent Fixing Period of Limitation Upon Assessment of Tax Under Section 4940 of the Internal Revenue Code

OMB No. 1545-0056

To be used with Form 1023. Submit in duplicate.

(See instructions on reverse side.)

Under section 6501(c)(4) of the Internal Revenue Code, and as part of a request file organization named below be treated as a publicly supported organization under se section 509(a)(2) during an advance ruling period,	
Minnesota Ground Water Association Foundation (Exact legal name of organization as shown in organizing document) 4779 126th St. N., White Bearlate MN 55110 (Number, street, city or town, state, and ZIP code)	District Director of Internal Revenue, or I the Assistant Commissioner (Employee Plans and Exempt Organizations)
consent and agree that the period for assessing tax (imposed under section 494 tax years in the advance ruling period will extend 8 years, 4 months, and 15 dayear. However, if a notice of deficiency in tax for any of these years is sent to the expires, the time for making an assessment will be further extended by the numprohibited, plus 60 days.	ys beyond the end of the first tax organization before the period
Ending date of first tax year	
	I Date
Name of organization (as shown in organizing document)	Date
Minnesota Ground Water Association Foundation	6/27/00
Officer or trustee having authority to sign	Type or print name and title
Signature Mark M. Suga	Paula M. Berger, President
For IRS use only	
District Director or Assistant Commissioner (Employee Plans and Exempt Organizations)	Date

The Minnesota Ground Water Foundation was formed to assume the educational and scientific public benefit activities of the Minnesota Ground Water Association. Mutual benefit activities, such as the newsletter and networking activities will remain with the Association. The activities of the newly formed Minnesota Ground Water Association Foundation (MGWAF) will include the following former MGWA activities (documentation of all activities discussed is included Attachment A):

Direct support of students and institutions engaged in the study of ground water

- To encourage the study of ground water science, MGWA has in the past provided modest help with the funding of the University of Minnesota's Hydrogeology Field Camp and the academic field trips of institutions such as the University of Wisconsin River Falls, Bemidji State, Macalester College, Carleton College, and St. Cloud State. These trips help the students learn in the real world. Hydrogeology field trips and field camps let students learn by doing. MGWAF will continue assisting these institutions by providing support for field camp and field trips. Examples 1 3, Funding Request 1.
- Ground water is not easily seen because it is underground. Physical models of how ground water moves underground can be made (they are similar to Plexiglas ant-farms). MGWA has purchased this type of model and donated them to public institutions where they can be used by many. MGWA members also volunteer to take these models out to show to classrooms. MGWAF will continue to help fund and organize this activity. MGWAF intends to expand the assistance given to the presenters by creating a library of reference curricula. **Example 4, Funding Request 2.**
- Within 5 years MGWAF hopes to have adequate fund in its endowment to generate enough interest to be able to offer modest financial assistance to outstanding individual students of ground water. To that end, the MGWA will dedicate the excess of revenue over expenses on educational activities such as conferences and field trips each year to the endowment of the MGWAF. Further, MGWA has stipulated that interest earned on the endowment be retained in the endowment until the endowment exceeds \$50,000. Funding Request 3.

Education of the public on a variety of ground water related environmental issues.

- Since 1998 MGWA has co-sponsored the Children's Water Festival. This event brings bus-loads of school children to an activity center where they are taught important surface water and ground water concepts at learning stations staffed and supplied in part by MGWA volunteers. The children learn about the importance of water to life and they are entertained at the same time. There is no charge for admission. MGWAF will continue to help fund and organize this activity.

 Example 5
- Once each year, since about 1995, usually in the spring, MGWA has organized a public policy conference on a ground water related topic. People from all walks of life are invited; advertising is through the web site, the MGWA newsletter,

10 University Drive Duluth, MN 55812 jmunson@d.umn.edu

Paula M. Berger MGWA Past-President 4779 126th St N White Bear Lake, MN 55110-5910

Dear Ms. Berger,

I am enclosing a couple of pictures of the field trip a group of students and faculty went on with Professor Emeritus, Dr. John Green. The field trip included eight stops to look at the geology of the North Shore, and an extended stop at Split Rock Lighthouse for lunch. I want to thank you again for your help in making field trips offered by the Geology Club available to everyone at no cost.

Sincerely,

Jenna Munson Geology Club President

RECEIVED APR 1 8 2000

University of Minnesota

Twin Cities Campus

Department of Geology and Geophysics
Newton Horace Winchell School of Earth Sciences

108 Pillsbury Hall 310 Pillsbury Drive S.E. Minneapolis, MN 55455-0219

612-624-1333 Fax: 612-625-3819 geology@geolab.geo.umn.edu http://www.geo.umn.edu

April 11, 2000

Paula M. Berger Minnesota Groundwater Association 4779 126th St. N. White Bear Lake, MN 55110-5910

Dear Paula,

I would like to thank you and the Minnesota Groundwater Association for the generous gift of \$200 to help defray the cost of Hydrogeology Field Camp this summer. We would be most happy to honor your request of a photograph from the field camp for your newsletter, and will send one in late August. Again, thank you for your continued support.

Sincerely,

W.E. Seyfried, Jr.
Professor and Head

Cc: Professor Mark Person



RECEIVED APR 1 5 2000

University of Minnesota

Duluth Campus

Development Office

315 Darland Administration Building 10 University Drive Duluth, Minnesota 55812-2496 218-726-7989

April 13, 2000

Minnesota Ground Water Association 4779 126th Street N. White Bear Lake, MN 55110-5910

Thank you for your recent gift of \$100.00 in support of the UMD Geology Research Fund.

Because of your support along with that of many other alumni and friends, UMD continues to move forward. Increasingly, UMD is being recognized as one of the premier regional universities in the Midwest and the country. UMD certainly is "A Great University on a Great Lake."

Please know that we value your friendship and support and that your gift does make a difference. Thank you very much.

Sincerely,

William D. Wade

Director of University Relations and Development

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Upcoming Newsletter Deadlines

Issue	Copy	Сору
	to Editor	to Publisher

Sept. (v19/3) 8/4/00 8/11/00 Dec. (v19/4) 11/3/00 11/10/00

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President's Column, cont.

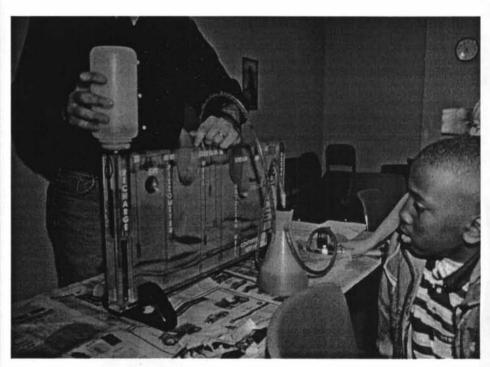
in elementary schools, it would also foster cooperation between the public and private sector organizations involved in professional ground water activities. If you are interested in bringing ground water to the elementary schools, if you would like to work on developing outlines for presentations to different age groups, or if your office has materials that might help teach ground water to kids, please give me a call.

Please consider volunteering as a presenter or classroom guide at the Third Annual Children's Water Festival (September 27, 2000, in St. Paul). Contact Joe Enfield, Children's Water Festival Co-chair (952-361-1801, or jenfield@co.carver.mn.us) for information on volunteer opportunities and company sponsorships. If you have kids in grade school, please be sure their science teacher knows about the festival.

Some related announcements:

- In March, the MGWA board approved three scholarship requests totaling \$500 (related news item, page 10).
- Responses to last fall's membership survey indicated a desire to support student projects and field trips to a greater degree than MGWA currently does. In March I signed the paperwork to incorporate the MGWA Foundation (related news item, also on page 10). The MGWA Foundation is the non-profit corporation to which MGWA will transfer the scholarship and education functions that have until now been carried by the MGWA. To make the Foundation successful, please consider making a donation (it's tax-deductible and painless to do online at www.mgwa.org). Don't be shy! Even five or ten dollars helps. Small donations from many donors are great (although we'd accept donations of \$1 million or more, too).

Note: The DNR Waters Ground Water Model seen below can be reserved by calling Dan Zwilling, DNR Waters, at (651)296-0427.



 MGWA President Jim Lundy demonstrates a ground-water flow model for budding hydrogeologists. Photo by Mark Sulzbach, Minnesota Pollution Control Agency

Example 4 was found in this issue of the Newsletter Minnesota Ground Water Association

www.mgwa.org

Volume 19, Number 2: June, 2000

President's Column

Jim Lundy, MGWA President

Last winter I discussed ground water with my daughter's kindergarten class. Fifty kids gathered round to see pictures of oil spills and maps of the watery planet in all its blueness. We talked about the water cycle, and observed colored water rising in celery due to capillary action. Finally I unveiled the physical ground water flow model, a saturated sand tank with "geologic" layering. As I showed the kids the water levels in the "piezometers", they crowded closer. I pumped water from a "drinking water well", and the youthful mass drew closer still.

I carefully weighed my next move. "Shall I pour this green stuff (food coloring, representing contamination) into this well?" And the frenzied throng was upon me, egging me on. "Do it! Do it!" (their enthusiasm for ground water contamination made me wonder whether my emphasis needed adjustment).

More recently, my wife Sherryl and I visited our son Sean's third grade class. This was the oldest class our traveling ground water circus had encountered, and we needed extra ammo. We discussed ground water flow through sand, gravel and clay, and fired up the sand tank. We placed three "monitoring wells" around the room, which the kids measured with an e-tape and flow cell. At the end of class I helped them map the classroom's "ground water flow direction", perhaps a bit advanced for them. But they learned my mantra for the day: "Where does water flow? From high head to low head!"

Even kindergartners can learn about ground water; my experience shows it's true. And when children are learning, the excitement is invigorating and contagious. Long after I left the

school, my mind buzzed with the memory of excited questions, the kids jostling each other to look at the flow model, the sheer enthusiasm. There was no doubt they had learned some things about ground water and the environment. The only downside was the time spent preparing. What if MGWA members with an interest in elementary school ground water education assembled a collection of resources for use by those who want to visit the schools?

The collection might have three parts. One would outline age appropriate presentations for kindergarten through high school. This part might include slides, demonstrations, and activities. A second part would list equipment owned by MGWA members (or their workplaces) that is available for loan to those wishing to make a school presentation. For example, the ground water model that I borrowed for my school presentations is available for loan at DNR Waters (one of the DNR Waters models was donated to DNR by MGWA). A third section would list MGWA members available to help make presentations as part of a ground water education cooperative.

For example, if I were asked to present to an eighth grade class, I would check the collected material. I don't know what eighth graders could handle, but the notebook would include a sample outline. Next, I would line up equipment (sampling equipment, posters, videos, etc.) by checking the equipment list and calling the members of the educational cooperative whose equipment is available for loan. Perhaps an MGWA member from one of those offices would offer to help with the presentation.

Not only would the educational cooperative promote ground water science

-continued on page 2

MTBE and Minnesota's ground water: A complex, continuing story

Katherine Carlson, Public Information Officer, Minnesota Pollution Control

CBS's "60 Minutes" television magazine banks on strong responses to the show's hard-hitting investigative pieces. They got one in Minnesota. After "60 Minutes" aired a January 16 two-part overview about the impacts of the gasoline oxygenate methyl tertiary butyl ether (MTBE) on ground water, phones started ringing at the Minnesota Department of Health (MDH), Minnesota Pollution Control Agency (MPCA), and municipal water suppliers. The main question: Is my drinking water safe?

"If you don't know about (MTBE) yet, you will," said reporter Steve Kroft in his introduction to the piece. "It's a gasoline additive that is contaminating drinking water from Maine to California and has been called the biggest environmental crisis of the next decade."

Public response to the hyperbole made delivering the Minnesota

— continued on page 3

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Minnesota Ground Water Association Foundation

Field Trip Support

The Minnesota Ground Water Association Foundation invites applications for field trip support to be used to assist a geoscience department at an accredited institution or non-profit organization with funding of field trips during which hydrogeologic concepts will be taught. The support can be used for campground fees, travel expenses, maps, handouts and guidebooks, meals and admission fees. MGWA Foundation does not fund the purchase of alcoholic beverages.

Field Trip Support funds are awarded annually. See the MGWA web page (<u>www.mgwa.org</u>) or call the Association office for the next application deadline.

Criteria

- 1. The applicant must be a field trip organizer at a degree granting institution or non-profit organization in Minnesota or an adjoining state or province:
- 2. The field trip must be organized by an accredited institution or non-profit organization for the purpose of teaching concepts of hydrogeology, water resources, or ground water hydrology.

Application Procedure

The applicant should submit:

- 1. A letter on organization stationery that contains a short statement of field trip goals, objectives and planned route with locations of field trip stops where hydrogeologic concepts will be illustrated and discussed.
- 2. A budget explaining how funds will be used. If we cannot fund your total request, what is the minimum amount that would be helpful to your situation?

By acceptance of MGWA Foundation funding, the recipient agrees to indemnify MGWA and MGWA Foundation against liabilities asserted against or incurred by the field trip organizers.

All application materials should be clearly labeled with the institution's or organization's name and address and should be sent to:

MGWA Foundation Field Trip Support 4779 126th St N White Bear Lake, MN 55110

Funding Request Z

Request for funding from the Minnesota Ground Water Association Foundation

Amount of funding approved:

Cover Sheet	
General Information	
Name of project:	
Project start date:	
Expected project completion d	ate:
Date this request was prepared	:
Project contact person (name, a	address, phones, fax):
Funding sources: Who have you already	contacted (names of organization, name and contact information for the
person you contacted):	
Who from your group	made the contact and when?
What was the result?	
	mportant. You are much more likely to have good information about and we need your help. Without your suggestions, we may not be able to
Budget summary	
Total project cost:	Total request for first year:
Approvals:	
MGWA Committee Chair	
MGWA Officer	
MGWA Foundation Officer	
For MGWAF use only:	Project number assigned:
Date received:	Date considered:

Request for funding from the Minnesota Ground Water Association Foundation

Project Details

Project Description

Name of project:

Geographic area project will serve:

Who is the target group?

Goals

What are the project's goals?

How do these goals fit with MGWA's goals?

Statement of purpose

This part of your request will be used as a fundraising tool. It should be able to stand alone as a document to explain your project to potential funders outside MGWA and MGWA Foundation. Please submit the Statement of Purpose as a separate sheet attached to this form.

Why is this project important? (This is the place to make your statement as boldly as possible. Funding sources see many worthy proposals, and yours must stand out from the start.)

How will the project be achieved? (Include a timetable.)

Who will direct the work? (Include descriptive phrases to show the ability of the leaders to accomplish the tasks: e.g., Carla Consultant, 15 years as environmental consultant, 2 years as head of local ground water festival committee.)

Why is MGWA the right organization to undertake this project?

Project Budget

On a separate sheet, list all expenses, by category and by year. Categories may include such things as operational costs (postage, printing, committee travel), or direct costs (in a scholarship project, this would be the costs of the scholarships). We have no hard and fast rules but we need as much information as you can provide.

Specify which costs will be incurred in which years, to the extent you can project. If you know of possible income sources, please list, and be sure they are also shown on page 1 of this form.

Instructions for Submitting a Funding Request to the MGWA Foundation

- 1. Fill out the cover sheet form and the project details form, attached. Add more pages, if necessary, to complete the project description. Add supplementary documents, if they are relevant.
- 2. Send the proposal to the MGWA Foundation office. The proposal will be forwarded to the MGWA Foundation board for review and preliminary approval for funding dependent upon availability of funds.
- 3. New project funding requests can be submitted at any time. Consideration of funding requests may be delayed until the MGWA Foundation Board meets (approximately twice per year). For larger projects, external funding sources may be required to fully fund the project. Suggestions of likely funding sources would be appreciated.

Any questions about this process or suggestions for its improvement should be addressed to MGWA Foundation officers.

Minnesota Ground Water Association Foundation

Student Scholarships

To be used for field work, field camp, travel expenses, equipment, laboratory expenses or other support necessary to complete requirements of degree program in hydrogeology, water resources, ground water hydrology or similar field.

Scholarships are awarded annually. See the MGWA web page (<u>www.mgwa.org</u>) or call the Association office for the next scholarship application deadline.

Criteria

- 1. The applicant must be enrolled in a degree granting institution in Minnesota or an adjoining state or province.
- 2. The applicant must be a candidate for a degree at an accredited institution in hydrogeology, water resources, ground water hydrology or similar field.

Application Procedure

The applicant should submit:

- 1. A letter which contains a short statement of career goals and objectives, involvement in both the geosciences and the community
- A budget explaining how funds will be used. If we cannot fund your total request, what is the minimum amount that would be helpful to your situation?
- 3. Two letters of reference which attest to the student's need for this award and ability to complete the work, one from faculty at the institution where the student is enrolled, and the second from a person of the student's choice.

All application materials should be clearly labeled with the applicant's name and address and should be sent to:

MGWA Foundation
Student Scholarships
4779 126th St N
White Bear Lake, MN 55110

Sponsored by the Metropolitan Area Groundwater Alliance (MAGWA), the Children's Water Festival is aimed at raising students' awareness of water as a vital resource that must be protected and used wisely. MAGWA, a consortium of state and local government agencies, patterned the festival after similar events held by The Groundwater Foundation.

There were approximately 50 Festival sponsors who donated money or product for the event. And there were over 150 volunteers and presenters who help make this festival a success. They included staff from the seven Metro Counties, State Departments of Health, Natural Resources, Pollution Control and Agriculture, Metropolitan Council Environmental Services, several Soil and Water Conservation Districts, Minnesota Extension Services and the Board of Water and Soil Resources, among others. Festival chair Cindy Weckwerth said, "We have received such positive evaluations and comments from sponsors, educators and students who attended this year's Festival that we are already enthused about planning for next year."

Contributed by Joe Enfield, Carver County Environmental Services



At hands-on work stations, students learn in ways not usually allowed in the classroom. Photo by Beth Oman

Kids' Thank You Letters

Each student in Pat White's fifth grade class at Bellaire Elementary sent letters of thank you to the MGWA for supporting this year's Children's Water Festival. Here's a sample:

Dear Dr. Piegat,

Our fifth grade was one of the lucky classrooms to be chosen to go to the fairgrounds on Oct. 6, 1999. We had a super time.

I had the best time yet! I loved all the stations. The water festival was super. I learned that 1% of all water is usable. I also learned that water started about 5,000,000,000 years ago.

Sincerely, Jennifer Wallenberg

Dear Dr. Piegat,

Our fifth grade class was one of the lucky classrooms to have been chosen to attend The Children's Water Festival at the Mn. Fairgrounds on Oct. 6th, 1999. We had a super time.

The last session we went to was the arcade. We went to the bubble station at this station. We could stand in a pool and they pull a bubble around you. We also went to water JEOP-ARDY. You can win posters and stickers and other good stuff. There was also a diorama of a farm. On the right there was a good farm and it saved the land. The bad farm did not save the land. We also saw Paul Douglas and we all got his autograph and we all had lots of fun!

My classmates and I would like to thank you for sponsoring this super event. We had some super classes, free lunch, and we received a free t-shirt. Please keep sponsoring this great event. We appreciate your efforts.

Sincerely, Alan Fackler

Dr. Scott Bair Presents Birdsall-Dreiss Lecture

Dr. Scott Bair appeared before a packed lecture hall at Pillsbury Hall to present the Birdsall-Dreiss lecture on Friday November 7. His presentation focussed on a fairly extensive technical post-audit of a civil lawsuit surrounding the Wells G and H Superfund site in Woburn, Massachusetts. The lawsuit was the subject of the best-selling book A Civil Action by Jonathan Harr.

The book tells the now famous story of a civil court proceeding in which a group of plaintiffs (Woburn families) sue industries located near a wellfield (wells G and H) operated by the City of Woburn for municipal supply. Elevated levels of chlorinated solvents are discovered in the municipal well water in 1979 and the wells are subsequently shut down. The plaintiffs choose to sue industries that they allege caused the ground-water contamination, which in turn the families feel caused the unusually high incidence of leukemia among children in a portion of Woburn that receives water from the wells in the well field.

The technical details surrounding ground-water movement, well hydraulics, surface water - ground water interaction, and contaminant transport factored heavily in the case. Details on these issues are of considerable interest to ground-water professionals reading the book, not least of which because much of the case swings on the judge and jury's ability to assimilate complicated technical information relating to ground water. The judge and jury are not the only ones that have difficulty interpreting factual data from the site. The technical experts hired separately by the plaintiffs and defendants often present conflicting testimony. Work conducted by Dr. Bair and his students allow him to evaluate, with the benefit of hindsight (and perhaps slightly more objectivity than those involved in the case), the analyses and interpretations made at the time of the trial in 1986.

Dr. Bair quickly reviewed the presentations made by the various technical

continued on next page

Attachment A Part II, Line I

page 2

reciprocal ads in related newsletters such as that for the American Institute of Professional Geologists, flyers, email announcements and newspaper listings. Topics recently addressed have included: "Minnesota Water Law", "New Leadership in Evolving Ground Water Policy" "Brownfield Redevelopment and Ground Water Protection" "Licensing of Geoscientists in Minnesota" "The Professional as an Expert Witness", "Legal and Regulatory Aspects of Ground Water Contamination". Venues are various public buildings, for example the continuing education center on the University of Minnesota St. Paul campus. Attendance ranges from 100-200. Costs for these meetings are approximately one-third of what similar meetings cost when presented by for-profit groups. These cost savings are achieved by volunteer organization of meetings and where possible volunteer speakers. MGWAF will continue to help fund and organize this activity. **Example 6**

- Once each year since 1982, usually in the fall, MGWA has organized a technical conference on a ground water related topic. Each year different ground water professional specialties would be addressed due to the somewhat narrower focus of technical conferences (compared to public policy conferences). Advertising is through the web site, reciprocal ads in related newsletters such as that for the American Institute of Professional Geologists, flyers, email announcements and newspaper listings. Recent topics have included: "Karst of Southeastern Minnesota" "Surface Geophysical Applications for Ground Water Professionals". "Developing Ground Water Technologies", "Surface Water - Ground Water Interaction" "Technical Communication with the Public: Ground Rules for Scientists", and "Isotope Hydrology". Venues are various public buildings, for example the Minnesota History Center. Attendance ranges from 80 to 110. Costs for these meetings are approximately one-fourth of what similar technical meetings cost when presented by for-profit groups. These cost savings are achieved by volunteer organization of meetings and where possible volunteer speakers. MGWAF will continue to help fund and organize this activity. **Example** 7
- Once or twice per year, since 1982, the MGWA has co-sponsored lectures held at the University of Minnesota or other Minnesota educational institution. These lectures are on topics of broad interest to those who recognize the importance of ground water. Recent topics have included: "Possible effects of a wetter climate on the ground water flow system of Yucca Mountain and vicinity, Nevada-California", "Basin-Scale Hydrogeological Modeling: Problems, Solutions and Applications" "Water, Microbes, and Rocks: The Geochemical Ecology of Contaminated Ground Water" and "Geysers: Why are they so rare and what might they indicate about deformation in areas of active tectonics?". These lectures draw students from the host institution and, by the van-load, from other institutions. The professional community also can take advantage of these events. Due to

Come learn about the history of Minnesota's water laws and the challenges of applying them today. From the technical aspects of water availability to the policy and health considerations of public water supply, from diverting water across state lines and watershed boundaries to conveying "unwanted water" off lands via public drainage ditches, the law is at the heart of how we deal with water issues.

WHO SHOULD ATTEND:

The conference is designed for those with an interest in Minnesota water law, especially legal constraints on water supply including: legal professionals; ground water scientists; state and local government officials; consultants; and students.

This conference is designed to meet the criteria for continuing education for Professional Geologists as specified by the MN Board of AELSLAGID.

4779 126th St N White Bear Lake, MN 55110 MINNESOTA GROUND WATER ASSOCIATION

MGWA SPRING CONFERENCE

Minnesota Water Law

May 5, 2000

8am - 4pm

University of Minnesota Earle Brown Center St. Paul



INVITED SPEAKERS

Ken Salzberg, Hamline Law School Legal Framework of Water Law in Minnesota

Greg Buzicky, Minnesota Dept of Agriculture *Ground Water Protection Act of 1989 - an Update*

Kent Lokkesmoe, Dept of Natural Resources Issues Related to Diversion

Jim Japs, Dept of Natural Resources Permitting Issues in Water Supply

Curt Deter, Rinke Noonan *Insights into Minnesota Drainage Law*

John Hunt, Barr Engineering Co A Consultant's Perspective

John Linc Stine, Dept of Natural Resources Activities Affecting Protected Waters

Jack Henrich, MN Water Well Association Rural Water Supplies - a Well Driller's Perspective

MN Center for Environmental Advocacy Gravel Pit and Mine Dewatering Issues

Tibor Gallo, MN Attorney Generals Office *The Future*

For conference information contact: Jim Lundy (651)296-7822 Email: jim.lundy@pca.state.mn.us

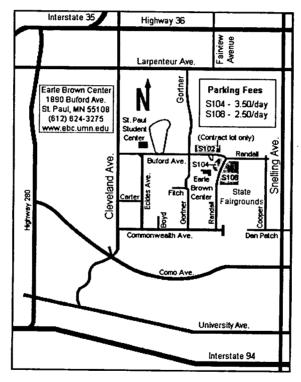
To register, mail to:
MGWA, 4779 126th St N
White Bear Lake, MN 55110-5910
or fax to: (651)426-5449
or order online: www.mgwa.org/order.html

MGWA SPRING CONFERENCE

Minnesota Water Law

University of Minnesota Earle Brown Center, St. Paul

Friday May 5, 2000 Register 7:30 am, Start 8:00 am



Payment can be by: VISA/MC/Discover, check or purchase order.
For credit card orders, include
VISA/MC/Discover number, expiration date, and signature. Please make checks payable to MGWA. Purchase orders accepted, but no-shows will be billed. Faxed registrations must include credit card info and signature.

REGISTRATION FORM

Deadline for pre-registration is **April 26, 2000**. Registration includes pre-meeting continental breakfast, mid-morning coffee break, buffet luncheon and afternoon snacks and beverages.

Mail Registration Form to:
MGWA c/o WRI
4779 126th St N
White Bear Lake, MN 55110-5910

or You can register with our secure online ordering system: www.mgwa.org/order.html	
Name:	
Company/School:	
Address:	
City, State, Zip:	
Phone: ()	
REGISTRATION FEES:	
Member: Nonmember: Students: Late Registration (after Apr 2 or at the door, add	\$ 60 \$ 70 \$ 20 \$+10
Total Enclosed:	\$

Deadline for preregistration: Apr 26, 2000

Please make checks payable to MGWA.

The Fall meeting of MGWA will be held on Friday November 19, 1999 at the Board Room of the Minnesota Pollution Control Agency (520 Lafayette Rd, St. Paul, 3 blocks N of 7th St).

Surface geophysical methods make measurements on the ground to help interpret what may exist unseen at depth. When used appropriately, geophysical methods aid in focusing subsequent investigations, with potential savings of both time and money.

The 6 expert presenters will explain the surface geophysical methods available locally, their limitations and case studies where they worked. You will learn how to decide when surface geophysics can help you or those you advise.

This conference is designed to meet the criteria for continuing education for Professional Geologists as specified by the MN Board of AELSLAGID.

MINNESOTA **GROUND WATER ASSOCIATION** 4779 126th StN

White

Bear

MN 55110

MGWA FALL CONFERENCE

Surface Geophysical Applications for Ground Water Professionals

November 19, 1999

8 am - 4 pm

Minnesota **Pollution Control Agency Board Room**







SCHEDULE

7:30 am Registration 8:00 am Introduction

· Jim Piegat, President MGWA

8:10 am Speakers

- Rodney Ikola, R. J. Ikola and Assoc.
 Review of selected geophysical techniques for ground water evaluation
- Matt Benson, Microgeophysics Corp. Ground penetrating RADAR, electrical resistivity

9:50 Break 15 Min (snacks)

- Todd Petersen, MN DNR Waters
 2-D seismic reflection and refraction
- Jim Berg, MN DNR Waters Electromagnetic surveys

Noon Lunch 1 hour (box lunch)

- Val Chandler, MN Geological Survey Gravity and magnetic applications to ground water studies
- Brian Herridge, Resolution Resources
 3-D seismic reflection and refraction
- Facilitated Discussion

4pm **Adjourn**

For conference information contact: Jim Lundy (651)296-7822 Email: jim.lundy@pca.state.mn.us

To register: mail or fax to: WRI: (651)426-5449 FAX

MGWA FALL CONFERENCE

Surface Geophysical Applications for Ground Water Professionals

Minnesota Pollution Control Agency Board Room, St. Paul

> Friday November 19, 1999 Register 7:30 am, Start 8:00 am

LOCATION:

MPCA is located at 520 Lafayette Rd., about 3 blocks North of 7th St. in St. Paul.

Parking is very limited. Do NOT park in the short-term (4 hour) area outside the main entrance. Please park in the off-site visitor parking area. Turn in (left) at the 2nd entrance on Grove St after turning west on Grove from Lafayette Rd. It is marked as Visitor Parking. You must sign in at the PCA building and obtain a visitor's badge. If using visitor parking you must register your car license plate number, or your car will be subject to towing. On-street parking is hard to find and no parking ramps are available. Carpooling is recommended. MTC bus lines 9, 12, 14 and 15 service the area.

Deadline for pre-registration: Nov 12, 1998

Payment can be by: VISA/MC, check or purchase order.

For credit card orders, include VISA/MC number, expiration date, and signature. Please make checks payable to MGWA. Purchase orders accepted, but no-shows will be billed. Faxed registrations must include credit card info. or PO #.

REGISTRATION FORM

Deadline for pre-registration is **November 12, 1999**. Pre-registrations must include payment. Registration includes snacks, box lunch (turkey, beef or veggie) and coffee.

Mail Registration Form with payment to: MGWA c/o WRI 4779 126th St N White Bear Lake, MN 55110-5910

Name:	
Company/School:	
Address:	
City, State, Zip:	
Phone: ()	
REGISTRATION FEE	S:
MGWA Member:	\$ 55
Nonmember:	\$ 60
Students:	\$ 20
Late Registration	
after Nov 12 add	\$+10
Total Enclosed:	. .
Lunch Choice:	
(turkey, beef or veggie)	

MGWA

1999 GSA Birdsall-Dreiss Distinguished Lecturer

"Geysers: Why Are They So Rare and What Might They Indicate About Deformation in Areas of Active Tectonics?"

Dr. Stuart Rojstaczer, Duke University Division of Earth and Ocean Sciences

To be held at the University of Minnesota Department of Geology and Geophysics Minneapolis East Bank Campus 110 Pillsbury Hall, Dept. of Geology & Geophysics 310 Pillsbury Dr. SE

WEDNESDAY, February 3, 1999 3:30 p.m., 110 Pillsbury Hall

Dr. Rojstaczer uses hydrology of geysers, and historical data from geyser activity and tectonic activity to present a model of geyser behavior that shows how they can be sensitive to small elastic deformation and may provide clues to pre-seismic behavior near plate boundaries.

He has been a hydrologist with the USGS and is now associate professor and director of the Center for Hydrologic Sciences, Duke University. He is the author of many research publications, and lately of the book: "Gone for Good: Tales of University Life After the Golden Age", Oxford 1999.

An informal reception for Dr. Rojstaczer, co-sponsored by the Minnesota Ground Water Association, follows the lecture.

For further information contact:
Mark Person
Gibson Hydrogeology Chair
Associate Professor
University of Minnesota
Department of Geology and Geophysics
310 Pillsbury Dr. SE
Minneapolis, MN 55455
ph. 612/625-7332
fax 612/625-3819
e-mail: mperson@darcy.geo.umn.edu

Co-Sponsored by:

University of Minnesota*

Department of Geology and Geophysics http://www.geo.umn.edu

Minnesota Ground Water Association http://www.mgwa.org Attachment A Part II, Line I

page 3

- sponsorship, there is no admission fee. Attendance ranges from 50 80. MGWAF will continue to help fund and organize this activity. **Example 8**
- Once each year since 1991 the MGWA has cosponsored, with the Mesabi Range Geologists, the Association for Women Geoscientists and/or the American Institute of Professional Geologists, a fall field trip to a specific location. At these locations geology and hydrogeology can be taught on site. The relationship of ground water with the geology is the topic and the classroom is the State of Minnesota and the surrounding area (limited by the cost of bus travel). Geoscientists who have worked at each of the sites are available to teach the trip participants about the geology and hydrogeology of their particular study area. These trips usually last two days and cost approximately half of what commercial trips of similar duration and travel distance cost; but those trips don't include learning! Costs are kept low by volunteers and by careful planning. Attendance ranges from 50 to 90. MGWAF will continue to help fund and organize this activity. Example 9

Publication of Educational or Scientific Literature about Ground Water

- Once each year since 1991 MGWA has published a Guidebook for the region of Minnesota visited by the Field Trip. These Guidebooks are valuable summaries of information about Minnesota Geology and Hydrogeology. MGWAF will continue to help fund and organize this activity. **Examples 10a & 10b**
- Proceedings of Conferences are occasionally published. MGWAF will continue to help fund and organize this activity. For example, the "Guidebook for Local Ground Water Protection in Minnesota" was published in 1993. It is unfortunately out of print, so we couldn't include an example.

Field Trip Information/Details

Parking and registration will be at Rosedale Mall in Roseville, MN. You will find us in the southeast parking area (Fox Lot). Buses will transport participants to and from the Mall.

Overnight accommodation at the bunkhouse or nearby camping is included. Bring your sleeping bag for the bunkhouse (rentals available for \$3) or full gear for outdoor camping. Several fully equipped cabin rooms are available for an additional \$35 per person. Contact Andrew Nichols for availability. Check the MGWA web site (www.mgwa.org) for more details on accommodations.

COST:

MGWA-AIPG-AWG Members: \$ 135 Non-Members: \$ 150 Students: \$ 65 Upgrade to Cabin (if available) +\$ 35

Included are transportation, refreshments, all entry fees, bag lunches on Friday and Saturday, dinner on Friday night and the trip guidebook. Questions about field trip arrangements should be directed to:

Andrew Nichols: (651)297-1783 or

Jim Lundy: (651)296-7822

Please send registration to:

MGWA/AIPG/AWG Field Trip c/o WRI

4779 126th St N

White Bear Lake, MN 55110-5910

Fax: (651)426-5449

Voice Mail: (651)426-3316

REGISTRATION MUST BE RECEIVED BY Friday, August 20th

White Bear Lake MN 55110-5910 4779 126th St N Minnesota Ground Water Association



North Shore and **Gunflint Trail**

September 10 and 11, 1999

Mail

Presorted First Class St. Paul, Minnesota Permit No 7122 US POSTAGE



REGISTRATION FORM

MGWA-AIPG-AWG FALL FIELD TRIP North Shore and **Gunflint Trail**

Mail Registration Form To: MGWA/AIPG/AWG Field Trip c/o WRI 4779 126th St N White Bear Lake, MN 55110-5910

Deadline for registration August 20, 1999.
Name:
Company/School:
Address:
City, State, Zip:
Phone: ()
REGISTRATION FEES:
MGWA/AIPG/AWG Member: \$135 Nonmember: \$150 Student: \$65 Cabin Lodging Supplement: +\$35 Total Enclosed: \$
Please indicate if you wish to camp.

Please make checks payable to MGWA.

VISA/MC accepted with card #, exp date, and signature. Noshows will not receive refunds; cancellations accepted until Sept 2 with a \$30 processing fee. You may send an alternate.

MGWA-AIPG-AWG Fall Field Trip - North Shore and Gunflint Trail - Sept 10 & 11, 1999

DAY 1 - FRIDAY, SEPTEMBER 10.

6:30 am Registration at Rosedale Mall 7:00 am (prompt) busses leave

Ulland Bros Trap Rock Quarry 1.

Aggregate quarry operation and geologic features of lowermost Midcontinent Rift lava flows (Ely's Peak basalts)

Skyline Parkway Overview at Bardon's Peak

Duluth Complex geology and glacial history of Lake Superior and St. Louis River estuary

3. **Gooseberry Falls State Park**

Physical volcanology and hydrogeology of North Shore Volcanic Group basalts

LUNCH - Box Lunch at Gooseberry Falls (included)

Finland Radar Station

Groundwater contamination of fractured bedrock aguifer (Finland granite); presentation by Harza Engineering geologist

Sugar Loaf Cove

Classic physical volcanology feature of basalt flows from uppermost Midcontinent Rift lavas (ropy flow tops, pipe amygdules, clastic dikes, columnar jointing, etc.)

Good Harbor Bay

Water quality issues related to thick interflow sandstone unit viewed in roadcut here

Dinner (included) 7 pm Rockwood Lodge - Gunflint Trail Discussion of North Shore ground water issues Overnight at Rockwood Lodge

DAY 2 - SATURDAY, SEPTEMBER 11

6:45 - 7:45 am Breakfast at Rockwood Lodge (included)

8:00 am leave Rockwood Lodge

End of the Trail Campground Geologic and structural features of the Archean Saganaga Granite

2. Magnetic Rock Trail

- a) Angular unconformity between Archean metavolcanics and Paleoproterozoic conglomerate
- b) Stromatolitic horizon in the Gunflint Iron-Formation
- **Gunflint Lake** Morainal deposits from the Rainy Lobe

Poplar Lake

Sulfide-bearing base of the Mesoproterozoic Duluth Complex and its geohydrologic implications

LUNCH - Rockwood Lodge 12:15-1:15 pm (included)

Depart Rockwood 1:30 pm

6 pm (approx) Arrive in Roseville, MN Rosedale Mall

Please bring appropriate footware for hiking

AIPG-MGWA-AWG FALL FIELD TRIP

GEOLOGY AND GEOHYDROLOGY OF
THE NORTH SHORE AND GUNFLINT TRAIL

September 10 and 11, 1999

Field Trip Leaders

Jim Miller, Minnesota Geological Survey Bob Tipping, Minnesota Geological Survey John Green, University of Minnesota—Duluth







Attachment B Part II Line 2

The Minnesota Ground Water Association Foundation's sources of support, in order of size (from largest source of anticipated support to smallest source of anticipated support) will likely include:

Donations from the public (this has been the sole source of funds to date – passed through from the MGWA) that will be raised by the MGWAF Board.

Excess of revenue over expenses on MGWA educational activities such as conferences and field trips which will become part of the MGWAF endowment.

Contributions from the Minnesota Ground Water Association in support of specific projects.

Sale of ground water publications.

Sale of other appropriate items during short-term fundraising events such as silent auctions or product sales.

Attachment C
Part II Line 3

No funds have been solicited for MGWA Foundation as yet, with the exception of a mention in the Minnesota Ground Water Association Newsletter. (Example 1). In the past, MGWA members have been asked to earmark extra dues money for the Association's public education efforts, but they were informed that such extra dues money would not be tax deductible as a charitable contribution. Now that all public benefit activities will be transferred to and carried out by the Minnesota Ground Water Association Foundation with the assistance of the members of the MGWA Board, fundraising will be done through e-mail notices, newsletter pleas, a donation page on the web site, and an annual direct mailing to lists we will buy or trade from other organizations and to a list we will build ourselves or addresses of people we know to be interested in the ground water resource and in ground water education. A proposed flyer for the annual mailing has been sent out for review to the officers of the Foundation (Example 2). Other funds will be raised by trying to bring in more money at our education events (those where admission is charged) than we spend.

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Upcoming Newsletter Deadlines

Issue	Сору	Сору
	to Editor	to Publisher

Sept. (v19/3) 8/4/00 8/11/00 Dec. (v19/4) 11/3/00 11/10/00

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President's Column, cont.

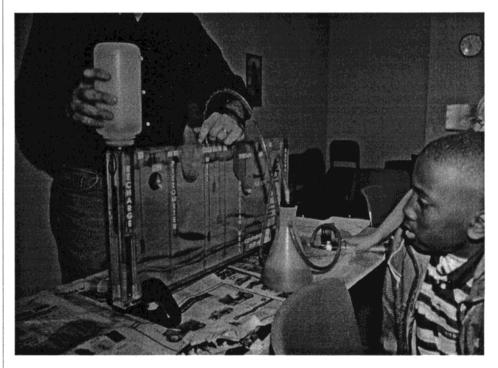
in elementary schools, it would also foster cooperation between the public and private sector organizations involved in professional ground water activities. If you are interested in bringing ground water to the elementary schools, if you would like to work on developing outlines for presentations to different age groups, or if your office has materials that might help teach ground water to kids, please give me a call.

Please consider volunteering as a presenter or classroom guide at the Third Annual Children's Water Festival (September 27, 2000, in St. Paul). Contact Joe Enfield, Children's Water Festival Co-chair (952-361-1801, or jenfield@co.carver.mn.us) for information on volunteer opportunities and company sponsorships. If you have kids in grade school, please be sure their science teacher knows about the festival.

Some related announcements:

- In March, the MGWA board approved three scholarship requests totaling \$500 (related news item, page 10).
- Responses to last fall's membership survey indicated a desire to support student projects and field trips to a greater degree than MGWA currently does. In March I signed the paperwork to incorporate the MGWA Foundation (related news item, also on page 10). The MGWA Foundation is the non-profit corporation to which MGWA will transfer the scholarship and education functions that have until now been carried by the MGWA. To make the Foundation successful, please consider making a donation (it's tax-deductible and painless to do online at www.mgwa.org). Don't be shy! Even five or ten dollars helps. Small donations from many donors are great (although we'd accept donations of \$1 million or more, too).

Note: The DNR Waters Ground Water Model seen below can be reserved by calling Dan Zwilling, DNR Waters, at (651)296-0427.



— MGWA President Jim Lundy demonstrates a ground-water flow model for budding hydrogeologists. Photo by Mark Sulzbach, Minnesota Pollution Control Agency

Example I appeared in this issue of the newsletter Minnesota Ground Water Association

www.mgwa.org

Volume 19, Number 2: June, 2000

President's Column

Jim Lundy, MGWA President

Last winter I discussed ground water with my daughter's kindergarten class. Fifty kids gathered round to see pictures of oil spills and maps of the watery planet in all its blueness. We talked about the water cycle, and observed colored water rising in celery due to capillary action. Finally I unveiled the physical ground water flow model, a saturated sand tank with "geologic" layering. As I showed the kids the water levels in the "piezometers", they crowded closer. I pumped water from a "drinking water well", and the youthful mass drew closer still.

I carefully weighed my next move. "Shall I pour this green stuff (food coloring, representing contamination) into this well?" And the frenzied throng was upon me, egging me on. "Do it! Do it!" (their enthusiasm for ground water contamination made me wonder whether my emphasis needed adjustment).

More recently, my wife Sherryl and I visited our son Sean's third grade class. This was the oldest class our traveling ground water circus had encountered, and we needed extra ammo. We discussed ground water flow through sand, gravel and clay, and fired up the sand tank. We placed three "monitoring wells" around the room, which the kids measured with an e-tape and flow cell. At the end of class I helped them map the classroom's "ground water flow direction", perhaps a bit advanced for them. But they learned my mantra for the day: "Where does water flow? From high head to low head!"

Even kindergartners can learn about ground water; my experience shows it's true. And when children are learning, the excitement is invigorating and contagious. Long after I left the

school, my mind buzzed with the memory of excited questions, the kids jostling each other to look at the flow model, the sheer enthusiasm. There was no doubt they had learned some things about ground water and the environment. The only downside was the time spent preparing. What if MGWA members with an interest in elementary school ground water education assembled a collection of resources for use by those who want to visit the schools?

The collection might have three parts. One would outline age appropriate presentations for kindergarten through high school. This part might include slides, demonstrations, and activities. A second part would list equipment owned by MGWA members (or their workplaces) that is available for loan to those wishing to make a school presentation. For example, the ground water model that I borrowed for my school presentations is available for loan at DNR Waters (one of the DNR Waters mod els was donated to DNR by MGWA). A third section would list MGWA members available to help make presentations as part of a ground water education cooperative.

For example, if I were asked to present to an eighth grade class, I would check the collected material. I don't know what eighth graders could handle, but the notebook would include a sample outline. Next, I would line up equipment (sampling equipment, posters, videos, etc.) by checking the equipment list and calling the members of the educational cooperative whose equipment is available for loan. Perhaps an MGWA member from one of those offices would offer to help with the presentation.

Not only would the educational cooperative promote ground water science

-continued on page 2

MTBE and Minnesota's ground water: A complex, continuing story

Katherine Carlson, Public Information Officer, Minnesota Pollution Control

CBS's "60 Minutes" television magazine banks on strong responses to the show's hard-hitting investigative pieces. They got one in Minnesota. After "60 Minutes" aired a January 16 two-part overview about the impacts of the gasoline oxygenate methyl tertiary butyl ether (MTBE) on ground water, phones started ringing at the Minnesota Department of Health (MDH), Minnesota Pollution Control Agency (MPCA), and municipal water suppliers. The main question: Is my drinking water safe?

"If you don't know about (MTBE) yet, you will," said reporter Steve Kroft in his introduction to the piece. "It's a gasoline additive that is contaminating drinking water from Maine to California and has been called the biggest environmental crisis of the next decade."

Public response to the hyperbole made delivering the Minnesota

— continued on page 3

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The MWGA Foundation 501(c)(3) Inaugural Fund Drive

The Minnesota Ground Water Association Foundation has been created to directly support MGWA's educational and scientific projects. The Foundation will be able to conduct activities more cost-effectively (no sales tax except for food and beverage for example) and the donations provided by supporters will be deductible as charitable contributions. The result will be that MGWA Foundation will increase funding of free and lower-cost educational events over what MGWA could accomplish. Given generous funding we can look forward to these programs:

Education Support MGWAF will provide grants to support Hydrogeology

Field Trips conducted by regional colleges. MGWAF will

continue to provide assistance to the University of

Minnesota Hydrogeology Field Camp.

Children's Water Festival MGWAF will provide a grant to support this annual

Hands-On Learning Fair for elementary kids

Publications MGWAF will be able to fund the cost of newsletter

publication of articles about Minnesota Hydrogeology.

Seminars/Conferences MGWAF support will co-sponsor free or low-cost lectures

about hydrogeology, (e.g. Birdsall-Dreiss and Darcy talks).

Educational Programs MGWAF has created a funding process for educational

programs. Programs are not limited to the types of events

MGWA has previously sponsored. New ideas are

welcome!

MGWAF is a 501(c)(3) non-profit public benefit corporation formed to encourage the study of ground water in general and Minnesota Ground Water in specific.

All Gifts to MGWAF are Tax - Deductible!*

*to the extent allowed by law (usually 50% of your taxable income....)

Yes, I support the MGWA Foundation	Make checks payable to: MGWA Foundation		
\$5000			
\$1000	Mail to:		
\$500	MGWAF Treasurer		
\$100	c/o WRI		
\$50	4779 126th Street North		
Other (any amount welcomed!)	White Bear Lake MN 55110-5910		

SCHOLARSHIP POLICY

SECTION 1 — SCHOLARSHIP SELECTION COMMITTEE

- A. The committee will be comprised of a minimum of three to a maximum of five ground water professionals who are recruited as individuals without personal ties to current ground water students who might be potential applicants.
- B. The scholarship selection committee applicants will be presented to the MGWAF Board for endorsement after discussion of any "conflict of interest" concerns.
- C. The Executive Director is the liaison with the scholarship selection committee and the MGWAF Board. The liaison will have no voting rights and will not be present when the committee selects the scholarship awardee(s), but will help facilitate the processing of the applications, notification of funds available for scholarship and the requesting of funds to be paid.
- D. The scholarship selection committee will advertise the existence of the scholarship at least four months prior to the application deadline. The applicant pool should have at least ten eligible students. The selection committee will redouble recruitment efforts if the pool is less than ten one month prior to the deadline.
- E. The scholarship selection committee will develop objective scoring criteria by which each committee member will independently score each application. Scores will rank financial need as determined by the committee and attempt to quantify the student's sincerity in his/her academic endeavors and potential to contribute to ground water science. Combined scores will be calculated to determine candidate rankings. Should the committee decide that the highest-ranked candidate is none-the-less not the most worthy candidate, a lesser-ranked candidate may be chosen with the full MGWAF Board's concurrence.

SECTION 2 — ELIGIBILITY

The student needs funds for field work, field camp, travel expenses, equipment, laboratory expenses or other expenses necessary to complete requirements of a degree program in hydrogeology, water resources, ground water hydrology or closely allied field.

The student is enrolled in an accredited degree-granting institution in Minnesota or an adjoining state or province.

SECTION 3 — APPLICATION PROCEDURE

The applicant should submit:

- 1. A letter which contains a short statement of career goals and objectives, involvement in both the geosciences and community.
- 2. A budget explaining how funds will be used.
- 3. Two letters of reference which attest to the student's need for this award and ability to complete the degree or research project, one from faculty at the institution where the student is enrolled, and the second from a person of the student's choice.

All application materials should be clearly labeled with the applicant's name and address and should be sent to:

MGWA Foundation Student Scholarships 4779 126th St North White Bear Lake MN 55110-5910

SECTION 4 — CRITERIA FOR GRANTING SCHOLARSHIPS

- A. Scholarships will be awarded based on financial need and the student's potential to contribute to ground water science.
- B. Scholarships are intended to be 'last dollar' awards. Awards should be structured such that the student's financial aid package is not impacted in a way that substitutes the MGWA award for previously granted financial aid.
- C. Students who apply for scholarships are not required to be members of the Minnesota Ground Water Association. The selection committee may consider membership as one indication of involvement in the geosciences.
- D. No specific grade-point criteria is specified, because students who need to work or care for others while pursuing their studies may not achieve grades that truly reflect ability.

SECTION 5 — SCHOLARSHIP AMOUNT AND TIMING OF AWARDS

- A. The MGWAF Board will determine the award amount that will meet the goal of the scholarship program.
- B. The Treasurer of MGWAF will determine if the endowment can generate adequate funds to allow a scholarship award in the recommended amount. She/he will advise the MGWAF Board whether a scholarship should be granted in the coming year.

When the MGWAF Board decides that a scholarship will be offered, the Selection Committee will be chosen and the award process begun with the goal of meeting the following deadlines:

Committee Selection in May
Scholarship Announcement in September
Application Deadline January
Award Decision March

State of Minnesota

SECRETARY OF STATE

CERTIFICATE OF INCORPORATION

I, Mary Kiffmeyer, Secretary of State of Minnesota, do certify that: Articles of Incorporation, duly signed and acknowledged under oath, have been filed on this date in the Office of the Secretary of State, for the incorporation of the following corporation, under and in accordance with the provisions of the chapter of Minnesota Statutes listed below.

This corporation is now legally organized under the laws of Minnesota.

Corporate Name: Minnesota Ground Water Association Foundation

Corporate Charter Number: 1V-87

Chapter Formed Under: 317A

This certificate has been issued on 03/17/2000.



Mary Kiffmager Secretary of State.

ARTICLES OF INCORPORATION OF Minnesota Ground Water Association Foundation

A NON-PROFIT CORPORATION

The undersigned incorporators, in order to form a non-profit corporation under the laws of the state of Minnesota, adopt the following Articles of Incorporation:

ONE: The name of this corporation is Minnesota Ground Water Association Foundation, hereafter referred to as the corporation.

TWO: The name and address of the registered agent of this corporation are:

Dr. Jeanette H. Leete, 4779 126th Street North, White Bear Lake MN 55110-5910

THREE: This corporation is organized under Minnesota Statutes 317A.

FOUR: The specific and primary purpose for which this corporation is organized is: to carry out the educational and scientific public benefit activities of the Minnesota Ground Water Association. The Minnesota Ground Water Foundation will not engage in political lobbying activities. This corporation is organized exclusively for one or more of the purposes as specified in Section 501(c)(3) of the Internal Revenue Code, including, for such purposes, the making of distributions to organizations that qualify as exempt organizations under section 501(c)(3) of the Internal Revenue Code, or corresponding section of any future federal tax code.

FIVE: The number of initial directors of this corporation is three. Their names and address are as follows:

Patricia A. Bloomgren 1114 Meadowview Drive Stillwater, MN 55082

James Lundy 1405 Arona St. Paul MN 55108

Paula Berger 1447 Jefferson Ave St. Paul MN 55105

SIX: The names and addresses of the incorporators of this corporation are:

Patricia A. Bloomgren 1114 Meadowview Drive Stillwater, MN 55082

James Lundy 1405 Arona St. Paul MN 55108

046877

SEVEN: The period of duration of this corporation is perpetual.

EIGHT: This corporation shall have no members. However, pursuant to 317A401(b) of the Minnesota Nonprofit Corporation Act, any action which would otherwise, under law or the

provisions of the Articles of Incorporation or Bylaws of the corporation, require approval by members, shall only require approval of the Board of Directors.

NINE: Any additional provisions for the operation of the corporation are as follows:

Upon the dissolution of this corporation, its assets remaining after payment, or provision for payment, of all debts and liabilities of this corporation shall be distributed for one or more exempt purposes within the meaning of Section 501(c)(3) of the Internal Revenue Code or shall be distributed to the federal government, or to a state or local government, for a public purpose.

No substantial part of the activities of this corporation shall consist of carrying on propaganda, or otherwise attempting to influence legislation (except as otherwise provided by Section 501(h) of the Internal Revenue Code), and this corporation shall not participate in, or intervene in (including the publishing or distribution of statements), any political campaign on behalf of, or in opposition to, any candidate for public office.

No part of the net earnings of this corporation shall inure to the benefit of, or be distributable to, its members, directors, officers, or other private persons, except that this corporation shall be authorized and empowered to pay reasonable compensation for services rendered and to make payments and distributions in furtherance of the purposes set forth in these Articles.

Notwithstanding any other provision of these Articles, this corporation shall not carry on any other activities not permitted to be carried on (1) by a corporation exempt from federal income tax under Section 501(c)(3) of the Internal Revenue Code or (2) by a corporation contributions to which are deductible under Section 170(c)(2) of the Internal Revenue Code.

In any taxable year in which this corporation is a private foundation as described in Section 509(a) of the Internal Revenue Code, the corporation 1) shall distribute its income for said period at such time and manner as not to subject it to tax under Section 4942 of the Internal Revenue Code; 2) shall not engage in any act of self-dealing as defined in Section 4941(d) of the Internal Revenue Code; 3) shall not retain any excess business holdings as defined in Section 4943(c) of the Internal Revenue Code; 4) shall not make any investments in such manner as to subject the corporation to tax under Section 4944 of the Internal Revenue Code; and 5) shall not make any taxable expenditures as defined in Section 4945(d) of the Internal Revenue Code.

The undersigned incorporators hereby declare under penalty of perjury that the statements made in the foregoing Articles of Incorporation are true.

James R. Lundy, Incorporate

Patricia A. Bloomgren, Incorporator

STATE OF MINNESOTA

MAR 17 2000

Secretary of State

Bylaws of MINNESOTA GROUND WATER ASSOCIATION FOUNDATION 4779 126th Street North, White Bear Lake, MN 55110-5910

ARTICLE I: OFFICES

<u>Section 1. Principal Office</u>. The principal office of the corporation shall be in the County of Washington, State of Minnesota.

Section 2. Change of Address. The Board of Director principal office from one location to another in said chate below, and such address changes shall not be de-	ounty by noting t	he changed address and effective
	Dated:	, 20
	Dated:	, 20
	Dated:	, 20

The county of the corporation's principal office can be changed by amendment of these bylaws.

<u>Section 3. Other Offices</u>. The corporation may also have offices at such other places within the State of Minnesota as its business and activities may require and as the Board of Directors from time to time may designate.

ARTICLE II: NONPROFIT PURPOSES

Section 1. IRC Section 501(c)(3) Purposes. This corporation is organized exclusively for one or more of the purposes as specified in Section 501(c)(3) of the Internal Revenue Code, including, for such purposes, the making of distributions to organizations that qualify as exempt organizations under Section 501(c)(3) of the Internal Revenue Code or any future federal tax code.

Section 2. Specific Objectives and Purposes. The specific objective and purpose of this corporation shall be to carry out the public education and charitable programs of the Minnesota Ground Water Association, a non-profit mutual benefit corporation with which this Foundation is affiliated. These programs include, but are not limited to:

- a) the education of the public concerning the necessity of protecting the ground water resource from overuse and contamination
- b) the provision of scholarship funds for students studying the ground water resource
- c) the provision of assistance to educational institutions in support of ground water education programs
- d) the publication of educational materials on ground water issues and principles, including but not limited to newsletters, pamphlets, posters, web sites and brochures
- e) the organization of or support of seminars, conferences, field trips, and other events on ground water topics that serve to educate, and are open to, the public and provide a forum where community and environmental leaders, governmental and organizational representatives, and concerned members of the public may meet to exchange ideas, suggest solutions, and devise strategies to meet the continuing challenge of sustainable ground water resource management.

ARTICLE III: MEMBERS

Section 1. This corporation shall make no provisions for members in a corporate sense. Any action that would otherwise require approval by members, shall only require approval of the Board of Directors. The corporation may choose to call persons who donate a certain amount every year "Members" or "Supporters" some other term that the Board of Directors designates. Such designation does not give donors any powers under these Bylaws.

ARTICLE IV: DIRECTORS

Section 1. Board of Directors. The business and property of the corporation shall be managed and controlled by a Board of Directors. The Board of Directors shall consist of a President, Secretary, Treasurer and 2 other directors: the MGWA Liaison who shall be a Past President or a former officer of the Minnesota Ground Water Association, a non-profit mutual benefit corporation with which this Foundation is affiliated, and a Director-At-Large. Directors shall be adults under Minnesota law. The Directors will be recommended by the Board of the MGWA Foundation from members of the community and appointed by the Board of Directors of the Minnesota Ground Water Association to serve for two (2) years or until their successors are appointed. The terms of the first President and Treasurer shall be the years 2000, 2001, and 2002. The terms of the first Secretary, MGWA Liaison and Director-At-Large shall be the years 2000 and 2001. The dates of appointment are staggered so that there will always be at least two continuing Board Members. Terms of office after the first year of the Foundation's existence shall begin on the first day of the appropriate year. Directors may succeed themselves. If the MGWA is not in existence or does not appoint Directors for the Foundation by the end of January of a given year, then the Board of Directors of the Foundation shall have the power to recruit and appoint its own successors from the public at large and with the interests of the Foundation as their guide.

Section 2. Duties. It shall be the duty of the Directors to:

- a) Perform any and all duties imposed on them collectively or individually by law, by the Articles of Incorporation of this corporation, or by these Bylaws.
- b) Appoint and remove and prescribe the duties and fix the compensation of the executive staff, officers, agents, and employees of the corporation, except as otherwise provided in the Bylaws.
- c) Supervise all executive staff, officers, agents, and employees of the corporation to assure that their duties are performed properly.
- d) Meet at such times and places as required by these Bylaws.
- e) Register their addresses with the Secretary of the corporation, and notices of meetings mailed to them at such addresses shall be valid notices thereof.

Section 3. Powers. All the corporate powers except as are otherwise provided by the laws of the State of Minnesota shall be vested in and shall be exercised by the Board of Directors. The Board of Directors may by majority vote delegate to executive staff, officers, agents, or employees, such powers as they see fit subject to the provisions of Articles V and VI.

Section 4. Removal and Resignation. Except as otherwise provided by law, any Director may resign at any time by giving written notice of such resignation to the Board of Directors at the corporate office. Any Director may be removed from the Board upon approval by a majority of the total number of Directors.

Section 5. Vacancies. Any vacancy in the Board of Directors occurring during the year may be filled for the unexpired portion of the term by the Directors then serving, whether or not a quorum is present. The Board of Directors shall declare vacant the office of a Director who has died, or been declared of unsound mind by an order or judgement of any court, or convicted of a felony, or been found by a final order or judgment of any court to have breached any duty under the Minnesota Nonprofit Corporate Law.

Section 6. Regular and Annual Meetings. Regular meetings of Directors will be held at times to be determined by the Directors. At least one regular meeting, which may also be the annual meeting, will be held during the calendar year. This meeting may be held in conjunction with any Minnesota Ground Water Association Board of Directors meeting. The annual meeting will be held in conjunction with a Minnesota Ground Water Association Board of Directors meeting during the first three months of the calendar year.

Section 7. Special Meetings. Special meetings of the Board of Directors may be called by the President, Secretary, or any two Directors. Such meetings shall be held at such time and place, within the state of Minnesota, designated by the person or persons calling the meeting. In the absence of such designation, the special meeting will be held at the principal office of the corporation.

Section 8. Notice of Meetings. Regular meetings of the Board may be held without notice at such time and place as shall be determined by the Board. Special meetings of the Board shall be held upon four days' notice by first-class mail or 48 hours' notice delivered personally or by telephone, facsimile, or electronic mail. Such notice shall be addressed to each director at his or her address as shown on the books of the corporation, unless the director has filed a written request with the Secretary requesting that notices be sent to some other designated address. In the case of Facsimile or electronic mail notification, the director to be contacted shall acknowledge personal receipt of the facsimile or electronic mail by return message or telephone call within twenty-four hours of the first transmission.

Section 9. Conduct of Meetings. At all meetings of the Board of Directors, the President, or in his or her absence a chair chosen by the directors present, shall preside. The Secretary of the corporation shall act as Secretary of all meetings of the Board, provided that in his or her absence the presiding officer shall appoint another person to act as Secretary of the meeting. Meetings shall be governed by Robert's Rules of Order insofar as such rules are not inconsistent with or in conflict with provisions of these Bylaws or with provisions of law.

Section 10. Quorum for Meetings. A quorum shall consist of a majority of the Board of Directors then serving, and the act of a majority of the directors present at any meeting at which there is a quorum shall be the act of the Board of Directors, except as may be otherwise specifically provided by statute or by these Bylaws.

At any meeting whether or not a quorum is present, a majority of those present may adjourn the meeting to another time and place unless the meeting is adjourned for more than 24 hours. If the meeting is adjourned for more than 24 hours, a notice of the adjournment to another time and place shall be given to the directors who were not present at the time of adjournment. This notice shall be given prior to the new time of meeting.

The directors present at a duly called and held meeting at which a quorum is initially present may continue to do business notwithstanding the loss of a quorum at the meeting due to withdrawal of directors from the meeting, provided that any action taken thereafter must be approved by at least a majority of the required quorum for such meeting or such greater percentage as may be required by law, or the articles of incorporation or Bylaws of this corporation.

Section 11. Action Without Meeting. Any action required or permitted to be taken by the Board of Directors may be taken without a meeting if all members of the Board individually or collectively consent in writing to such action. Such written consent shall be filed with the minutes of the proceedings of the Board.

Section 12. Compensation. Directors shall not receive any stated salary for their services as such, but by resolution of the Board a reasonable sum for expenses of attendance, if any, may be allowed for attendance at each regular or special meeting of the Board. In addition, they shall be allowed reasonable advancement or reimbursement of expenses incurred in the performance of their regular duties as specified in section 2 of this article.

<u>Section 13</u>. Non-liability of <u>Directors</u>. The directors, so long as they perform their duties with care and act in good faith shall be not personally liable for the debts, liabilities, or other obligations of the corporation.

Article V. OFFICERS

Section 1. Number of Officers. The officers of this corporation shall be a President, Secretary, and Treasurer. These three officers shall be directors as stated in Article 3 of these Bylaws and each of these three offices must be held by a different person. The corporation may also have, as determined by the Board of Directors, other subordinate officers who do not serve concurrently as directors and thus do not vote at Board of Directors meetings. Any two of these subordinated offices may be held by the same person. The Executive Director of the Foundation shall be a non-voting subordinate officer of the Foundation.

Section 2. Appointment, Term of Office and Qualifications. The Officers of this Foundation shall be appointed by the Board of Directors of the Minnesota Ground Water Association, a nonprofit mutual benefit corporation with which this Foundation is affiliated, as specified in Article 3, Section 1. Foundation officers shall be adults under Minnesota law and shall be members in good standing of the Minnesota Ground Water Association, however, none shall be directors or officers of the association. The officers and subordinate officers of the corporation shall be appointed by the Board of Directors of the Foundation to two-year terms of office except as otherwise specified in these Bylaws. If the MGWA is not in existence or does not appoint Directors for the Foundation by the end of January of a given year, then the Board of Directors of the Foundation shall have the power to recruit and appoint its own successors from the public at large and with the interests of the Foundation as their guide.

Section 3. Removal and resignation. Any officer may be removed by a vote of three members of the Board of Directors approving such removal. An officer who was also a director and who was removed in accordance with section shall also be removed from the Board of Directors.

Any officer may resign at any time by giving written notice to the Board of Directors or to the President or Secretary of the corporation. The above provisions of this section shall be superseded by any conflicting terms of a contract that has been approved or ratified by the Board of Directors relating to the employment or service of any officer of the corporation.

<u>Section 4. Vacancies.</u> In case any office of the corporation becomes vacant by death, resignation, retirement, disqualification, or any other cause, the majority of directors then in office, although less than a quorum, may select officers to fill such vacancies. The officer selected shall hold office and serve until the next annual meeting of the Board of Directors, when the officer's successor shall be appointed as specified in section 2.

Section 5. President. The President shall be the chief executive officer of the corporation and shall, subject to the control of the Board of Directors, supervise and control the affairs of the corporation, the activities of the officers, and any executive staff. The President shall discharge the usual duties of the office of the President and act as the presiding officer at all meetings of the corporation. The President appoints the executive director who may be appointed to carry out the directions of the President and the Foundation Board of Directors.

Section 6. Secretary. The Secretary shall supervise and be responsible for the preparation and mailing of notices and other materials necessary to the business of the Foundation. The Secretary shall ensure that the books, documents, and papers, as the Board of Directors may determine, are maintained in good order in the office of the Foundation and shall have custody of any corporate seal. The Secretary shall attend and keep minutes of all meetings of the Board of Directors, recording therein the time and place of holding, whether regular or special, how called, how notice thereof was given, the names of those present or represented at the meeting, and the proceedings thereof. All documents of the Foundation shall be open for inspection as required by law. The Secretary may sign with the President in the name of or on behalf of the corporation, any contracts or agreements authorized by the Board of Directors, and when so authorized by the Board may affix any seal of the corporation. In general, the Secretary shall perform all duties incident to the office of Secretary and such other duties as may be required by law, by the articles of incorporation of this corporation or by these Bylaws, which may be assigned from time to time by the Board of Directors. The Secretary may delegate all of the above responsibilities to the executive director with exception of the responsibility for the minutes of meetings.

Section 8. Treasurer. The Treasurer shall:

- a) Supervise the disposition and custody of, and be responsible for, all funds and securities of the corporation, and deposit all such funds in name of the corporation in such banks, trust companies, or other depositories as shall be selected by the Board of Directors.
- b) Supervise the receipt, and give accurate receipt for, monies due and payable to the corporation from any source whatsoever.
- c) Disperse or cause to be dispersed the funds of the corporation as may be directed by the Board of Directors, taking proper vouchers for such disbursements.

- d) Supervise accounting, bookkeeping, and maintenance of adequate and correct accounts of the corporation's properties and business transactions, including accounts of its assets, liabilities, receipts, disbursements, gains, and losses.
- e) Exhibit at all reasonable times the books of accounts and financial records to any director of the corporation, or to his or her agent or attorney, on request therefore.
- f) Render to the President and directors, whenever requested, an account of any and all of the Treasurer's transactions and of the financial condition of the corporation.
- g) Prepare, or cause to be prepared, and certify, or cause to be certified, the financial statements to be included in any required reports.

In general, perform all duties incident to the office of Treasurer and other such duties as may be required by law, by the articles of incorporation of this corporation, or by these Bylaws, or which may be assigned from time to time by the Board of Directors.

All of the above responsibilities may be delegated to an executive director with exception of the responsibility for regular audits of the corporate financial records.

Section 9. Compensation. The salaries, if any, of all officers shall be fixed by the Board of Directors and shall be reasonable in amount. Compensation and expense reimbursements paid a director for serving as an officer of this corporation shall be subject to the provision that not more than 49 percent of the persons serving on the Board shall be currently compensated by the Corporation for services rendered within the previous 12 months, excluding any reasonable compensation for expenses paid to a director as a director.

Article VI. COMMITTEES

Section 1. Executive Committee. The Board of Directors may, by majority vote of directors then in office, designate at least two of the officers and one director, including any Executive Director, who is a Non-voting member of the Executive Committee but who is entitled to speak and bring forth motions, to constitute an executive committee and delegate to such committee any of the powers and authority of the Board in the management of the business and affairs of the corporation, except with respect to:

- a) The approval of any action that, under law or the provisions of these Bylaws, requires the approval of members or a majority of all the members.
- b) The filling of vacancies on the Board or on any committee that has the authority of the Board.
- c) The fixing of compensation of the directors for serving on the Board or on in a committee.
- d) The amendment or repeal of Bylaws or the adoption of new Bylaws.
- e) The amendment or repeal of any resolution of the Board that by its express terms is not so amenable or repeatable.
- f) The appointment of committees of the Board or the members thereof.
- g) The approval of any transaction to which this corporation is a party and in which one or more of the directors has a material financial interests, except as expressly provided in Minnesota nonprofit public benefit corporation law.

The Executive Committee may, subject to the approval of the Board of Directors, prescribe rules and regulations for the call and conduct of committee meetings and other matters relating to its procedure. The committee shall keep regular minutes of its proceedings, cause them to be filed with the corporate records, and report the same to the Board at each meeting and as the Board may require. By majority vote of its members then in office, the Board may at any time revoke or modify any and all of the authority so delegated, increase or decrease but not below two the number of its members, and fill vacancies on the committee from the members of the Board.

Section 2. Other Committees. The corporation shall have such other committees as may from time to time be designated by resolution of the Board of Directors. Such other committees may consist of persons who are not also members of the Board. These additional committees shall act in an advisory capacity only to the Board and shall be titled advisory committees.

Section 3. Compensation. The members of any committee shall not receive any stated salary for their services, but may receive, by prior resolution of the majority of the Board of Directors, a fixed reasonable sum for expenses of attendance, if any, for attendance at each regular or special committee meeting. The Board of Directors shall have the power to contract for and to pay special compensation to any member of a committee for rendering unusual or exceptional services to the corporation, appropriate to the value of such services. The Executive Director, if any, shall be compensated under contract.

Article VII. AGENTS AND REPRESENTATIVES

<u>Section 1.</u> The Board of Directors may appoint agents and representatives of the corporation to perform such acts or duties on behalf of the corporation consistent with these Bylaws and to the extent authorized or permitted by law.

Article VIII. EXECUTION OF INSTRUMENTS, DEPOSITS, AND FUNDS

Section 1. Execution of Instruments. The Board of Directors, except as otherwise provided in these Bylaws, may by resolution authorize any officer or agent of the corporation to enter into any contract or execute and deliver any instrument in the name of and on behalf of the corporation, and such authority may be general or confined to specific instances. Unless so authorized, no officer, agent, or employee shall have any power or authority to bind the corporation by any contract or engagement, or to pledge its credit, or to render it liable monetarily for any purpose or in any amount.

Section 2. Checks and Notes. Except as otherwise specifically determined by resolution of the Board of Directors, or as otherwise required by law, checks, drafts, promissory notes, order for payment of money, and other evidence of indebtedness of the corporation shall be signed by the Treasurer, or in the Treasurer's absence for any reason, by the President. As authorized by the Board of Directors, signature authority may be delegated to an Executive Director.

<u>Section 3. Deposits.</u> All funds of the corporation shall be deposited from time to time to the credit of the corporation in such banks, trust companies, or other depositories of the as the Board of Directors may select.

<u>Section 4. Gifts.</u> The Board of Directors may accept on behalf of the corporation any contribution, gift, bequest, or device for the charitable or public purposes of this corporation.

Section 5. Investments. The corporation shall have the right to retain all or any part of any securities or property acquired by it in whatever manner, and to invest and reinvest any funds held by it, according to the judgment of the Board of Directors without restriction, provided that no action shall be taken by or on behalf of the corporation if such action is a prohibited transaction or would result in the denial of the tax exemption under Section 503 of the Internal Revenue Code, as amended, and the regulations promulgated thereunder as they now exist or as they may hereafter be amended.

Section 6. Voting Upon Stock of Other Corporations. Unless otherwise ordered by the Board of Directors, the President shall have full power and authority on behalf of the corporation to vote either in person or in proxy at any meeting of stockholders of any corporation in which this corporation may hold stock. At any such meeting, the President may act on behalf of the corporation to possess and exercise all of the rights and powers incident to the ownership of such stock. The Board of Directors may confer like powers on any other person and may revoke any such powers granted at any time.

Article IX. CORPORATE RECORDS, REPORTS, AND SEAL

Section 1. Maintenance of Corporate Records. The corporation shall keep in its permanent records:

a) Minutes of all meetings of Directors and Committees of the Board. There being no members of this corporation, there will be no meetings of the membership. Minutes of all meetings shall indicate the time and place of holding such meetings, whether regular or special, how called, the notice given, and the names of those present and the proceedings thereof.

- b) Adequate and correct books and records of account, including accounts of its properties and business transactions and accounts of its assets, liabilities, receipts, disbursements, gains and losses.
- c) A record of its directors and officers, including subordinate officers, indicating their names and addresses, telephone, facsimile and electronic mail addresses.
- d) A copy of the corporation's Articles of Incorporation and Bylaws as amended to date, which shall be open to inspection at reasonable times at the corporation's principal office.
- e) Copies of the corporation's application for exemption from income taxes as a non-profit public benefit corporation and all tax returns as filed, both federal and state.

Section 2. Corporate Seal. The Board of Directors may adopt, use, and at will alter, a corporate seal. Such seal shall be kept at the principal office of the corporation. Failure to affix the seal to corporate instruments, however, shall not affect the validity of any such instrument.

<u>Section 3. Director's Rights.</u> Every Director shall have the absolute right at any reasonable time to inspect and copy all books, records, and documents of every kind and to inspect the physical properties of the corporation.

Section 4. Annual Report. The Board shall cause an annual report to be furnished not later than one hundred twenty days after the close of the corporation's fiscal year to all Directors of the corporation and the Officers of the Minnesota Ground Water Association. The report shall contain the following information in appropriate detail:

- a) The assets and liabilities, including the trust funds, of the corporation as of the end of the fiscal year.
- b) The principal changes in assets and liabilities, including trust funds, during the fiscal year.
- c) The revenue or receipts of the corporation, both unrestricted and restricted to particular purposes, for the fiscal year.
- d) The expenses or disbursements of the corporation, for both general and restricted purposes, during the fiscal year.
- e) An accounting of the programs and projects carried out or assisted by this corporation's funding and how these activities further the goals for which the corporation was created.
- f) A listing of all donors to the corporation during the fiscal year. Published listings of donor's names shall not reveal the names of donors who wish to remain anonymous. Such donors must be informed that donor's names are given to the Federal and State Taxing authorities.

The annual report shall be accompanied by any report of independent accountants, or, if there is no such report, the certificate of an authorized officer of the corporation that such statements were prepared without audit from the books and records of the corporation.

Article X. FISCAL YEAR

<u>Section 1. Fiscal Year of the Corporation.</u> The fiscal year of the corporation shall begin on the first day of January and end on the last day of December in each year.

Article XI. AMENDMENTS

<u>Section 1. Amendment of Bylaws.</u> The Board of Directors shall have power to make, alter, amend, and repeal the Bylaws of the corporation by affirmative vote of a majority of the Board.

Section 2. Certain Amendments. Notwithstanding the above Sections of this Article, this corporation shall not amend its Articles of Incorporation to alter any statement that appears in the original Articles of Incorporation except to correct an error in such statement. Changes in the names and addresses of the Directors and agents shall be made through regular corporate submittals to the Minnesota Secretary of State.

Article XII. PROHIBITION AGAINST SHARING CORPORATE PROFITS AND ASSETS

Section 1. Prohibition against sharing corporate profits and assets. No Director, officer, employee, committee member, or other person connected with this corporation, or any other private individual, shall receive at any time any of the net earnings or pecuniary profit from the operations of the corporation; provided however, that this provision shall not prevent payment to any such person of such reasonable compensation for services actually performed for the corporation in effecting any of its purposes as shall be fixed by the Board of Directors; and no such person or persons shall be entitled to share in the distribution of the corporate assets upon the dissolution of the corporation.

Article XIII. EXEMPT ACTIVITIES

Section 1. Exempt Activities. Notwithstanding any other provisions of these Bylaws, no Director, officer, employee, or representative of this corporation shall take any action or carry on any activity by or on behalf of the corporation not permitted to be taken or carried on by any organization exempt under Section 501(c)(3) of the Internal Revenue Code, as amended, and the regulations promulgated thereunder as they now exist or as they shall hereafter be amended, or by an organization contributions to which are deductible as charitable contributions under the Internal Revenue Code, as amended, as they now exist or as they shall hereafter be amended.

Article XIV. INDEMNIFICATION

Section 1. Indemnification. Each Director and officer of this corporation shall be indemnified to the fullest extent permitted by Minnesota law.

CERTIFICATE OF SECRETARY

I, the undersigned, do hereby certify:

- 1. That I am the duly appointed and acting Secretary of the Minnesota Ground Water Association Foundation, a Minnesota nonprofit public benefit corporation; and
- That the foregoing Bylaws constitute the Bylaws of said corporation as adopted at a meeting of the Board of Directors thereof.

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Dated: 4/27/00 Signed: James R. Culy

(Rev. January 1998)

Department of the Treasury

User Fee for Exempt Organization Determination Letter Request

► Attach this form to determination letter application. (Form 8718 is NOT a determination letter application.)

For IRS Use Only				
Control number				
Amount paid				
User fee screener				

Internal Revenue Service 2 Employer Identification Number 1 Name of organization Caution: Do not attach Form 8718 to an application for a pension plan determination letter. Use Form 8717 instead. Fee Type of request Initial request for a determination letter for: • An exempt organization that has had annual gross receipts averaging not more than \$10,000 during the preceding 4 years, or A new organization that anticipates gross receipts averaging not more than \$10,000 during its first 4 year Note: If you checked box 3a, you must complete the Certification below. Certification I certify that the annual gross receipts of Minne Sofa bround have averaged (or are expected to average) not more than \$10,000 during the preceding 4 (or the first 4) years of operation. Title ▶ Signature ▶ Initial request for a determination letter for: An exempt organization that has had annual gross receipts averaging more than \$10,000 during the preceding A new organization that anticipates gross receipts averaging more than \$10,000 during its first 4 years.. ▶ \$500 Group exemption letters Send the determination letter Attach to Form 8718 a check or Instructions application and Form 8718 to: money order payable to the Internal The law requires payment of a user fee Revenue Service for the full amount of Internal Revenue Service with each application for a determination the user fee. If you do not include the P.O. Box 192 letter. The user fees are listed on line 3 Covington, KY 41012-0192 full amount, your application will be above. For more information, see Rev. returned. Attach Form 8718 to your If you are using express mail or a Proc. 98-8, 1998-1, I.R.B. 225. determination letter application. delivery service, send the application Check the box on line 3 for the type and Form 8718 to: of application you are submitting. If you check box 3a, you must complete and Internal Revenue Service sign the certification statement that 201 West Rivercenter Blvd. Attn: Extracting Stop 312 appears under line 3a. Covington, KY 41011 Attach Check or Money Order Here

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