

Return of Organization Exempt From Income Tax

2004

Under section 501(c), 527, or 4947(a)(1) of the Internal Revenue Code (except black lung benefit trust or private foundation)

Open to Public Inspection

Department of the Treasury
Internal Revenue Service

▶ The organization may have to use a copy of this return to satisfy state reporting requirements.

A For the 2004 calendar year, or tax year beginning , 2004, and ending , 20

B Check if applicable:

- Address change
- Name change
- Initial return
- Final return
- Amended return
- Application pending

Please use IRS label or print or type. See Specific Instructions.

C Name of organization
Harpeth River Watershed Association, Inc.

Number and street (or P.O. box if mail is not delivered to street address) Room/suite
PO Box 1127

City or town, state or country, and ZIP + 4
Franklin, TN 37065

D Employer identification number
62 : 1802858

E Telephone number
(615) 790-9767

F Accounting method: Cash Accrual
 Other (specify) ▶

• Section 501(c)(3) organizations and 4947(a)(1) nonexempt charitable trusts must attach a completed Schedule A (Form 990 or 990-EZ).

H and I are not applicable to section 527 organizations.

H(a) Is this a group return for affiliates? Yes No

H(b) If "Yes," enter number of affiliates ▶

H(c) Are all affiliates included? Yes No
(If "No," attach a list. See instructions.)

H(d) Is this a separate return filed by an organization covered by a group ruling? Yes No

G Website: ▶

J Organization type (check only one) ▶ 501(c) (3) ◀ (insert no.) 4947(a)(1) or 527

K Check here if the organization's gross receipts are normally not more than \$25,000. The organization need not file a return with the IRS; but if the organization received a Form 990 Package in the mail, it should file a return without financial data. Some states require a complete return.

I Group Exemption Number ▶

L Gross receipts: Add lines 6b, 8b, 9b, and 10b to line 12 ▶ **310,655**

M Check if the organization is not required to attach Sch. B (Form 990, 990-EZ, or 990-PF).

Part I Revenue, Expenses, and Changes in Net Assets or Fund Balances (See page 18 of the instructions.)

Revenue	1 Contributions, gifts, grants, and similar amounts received:				
	a Direct public support	1a		207,044	
	b Indirect public support	1b			
	c Government contributions (grants)	1c		85,217	
	d Total (add lines 1a through 1c) (cash \$ _____ noncash \$ _____)	1d			292,261
	2 Program service revenue including government fees and contracts (from Part VII, line 93)	2			17,122
	3 Membership dues and assessments	3			
	4 Interest on savings and temporary cash investments	4			6
	5 Dividends and interest from securities	5			
	6a Gross rents	6a			
	b Less: rental expenses	6b			
	c Net rental income or (loss) (subtract line 6b from line 6a)	6c			
7 Other investment income (describe ▶)	7				
8a Gross amount from sales of assets other than inventory	(A) Securities		(B) Other		
		8a			
	b Less: cost or other basis and sales expenses	8b			
	c Gain or (loss) (attach schedule)	8c			
d Net gain or (loss) (combine line 8c, columns (A) and (B))	8d				
9 Special events and activities (attach schedule). If any amount is from gaming, check here <input type="checkbox"/>					
a Gross revenue (not including \$ _____ of contributions reported on line 1a)	9a				
b Less: direct expenses other than fundraising expenses	9b				
c Net income or (loss) from special events (subtract line 9b from line 9a)	9c				
10a Gross sales of inventory, less returns and allowances	10a		1,266		
	b Less: cost of goods sold	10b			
	c Gross profit or (loss) from sales of inventory (attach schedule) (subtract line 10b from line 10a)	10c			1,266
11 Other revenue (from Part VII, line 103)	11				
12 Total revenue (add lines 1d, 2, 3, 4, 5, 6c, 7, 8d, 9c, 10c, and 11)	12			310,655	
Expenses	13 Program services (from line 44, column (B))	13		227,442	
	14 Management and general (from line 44, column (C))	14		18,017	
	15 Fundraising (from line 44, column (D))	15		40,849	
	16 Payments to affiliates (attach schedule)	16			
	17 Total expenses (add lines 16 and 44, column (A))	17			286,308
Net Assets	18 Excess or (deficit) for the year (subtract line 17 from line 12)	18		24,347	
	19 Net assets or fund balances at beginning of year (from line 73, column (A))	19		28,900	
	20 Other changes in net assets or fund balances (attach explanation)	20		(2,173)	
	21 Net assets or fund balances at end of year (combine lines 18, 19, and 20)	21			51,074

Part II Statement of Functional Expenses

All organizations must complete column (A). Columns (B), (C), and (D) are required for section 501(c)(3) and (4) organizations and section 4947(a)(1) nonexempt charitable trusts but optional for others. (See page 22 of the instructions.)

Do not include amounts reported on line 6b, 8b, 9b, 10b, or 16 of Part I.		(A) Total	(B) Program services	(C) Management and general	(D) Fundraising
22	Grants and allocations (attach schedule) (cash \$ _____ noncash \$ _____)				
23	Specific assistance to individuals (attach schedule)				
24	Benefits paid to or for members (attach schedule).				
25	Compensation of officers, directors, etc.	43,761	33,894	6,490	3,377
26	Other salaries and wages	27,492	17,532	4,282	5,678
27	Pension plan contributions				
28	Other employee benefits				
29	Payroll taxes	6,222	4,490	941	791
30	Professional fundraising fees				
31	Accounting fees	591		591	
32	Legal fees				
33	Supplies	14,514	14,514		
34	Telephone				
35	Postage and shipping				
36	Occupancy	12,720	12,720		
37	Equipment rental and maintenance				
38	Printing and publications				
39	Travel	7,434	7,434		
40	Conferences, conventions, and meetings	18,563	12,510		6,053
41	Interest				
42	Depreciation, depletion, etc. (attach schedule)	2,136		2,136	
43	Other expenses not covered above (itemize): a Fees	348		348	
b	Contract Labor/Consultants	145,459	119,383	2,604	23,472
c	Insurance	1,860	1,860		
d	Misc	5,208	3,105	625	1,478
e					
44	Total functional expenses (add lines 22 through 43). Organizations completing columns (B)-(D), carry these totals to lines 13-15 .	286,308	227,442	18,017	40,849

Joint Costs. Check if you are following SOP 98-2.

Are any joint costs from a combined educational campaign and fundraising solicitation reported in (B) Program services? Yes No
 If "Yes," enter (i) the aggregate amount of these joint costs \$ _____; (ii) the amount allocated to Program services \$ _____; (iii) the amount allocated to Management and general \$ _____; and (iv) the amount allocated to Fundraising \$ _____

Part III Statement of Program Service Accomplishments (See page 25 of the instructions.)

What is the organization's primary exempt purpose? **To protect and restore the Harpeth River Watershed**
 All organizations must describe their exempt purpose achievements in a clear and concise manner. State the number of clients served, publications issued, etc. Discuss achievements that are not measurable. (Section 501(c)(3) and (4) organizations and 4947(a)(1) nonexempt charitable trusts must also enter the amount of grants and allocations to others.)

Program Service Expenses
 (Required for 501(c)(3) and (4) orgs., and 4947(a)(1) trusts; but optional for others.)

a	See attached				
	(Grants and allocations \$ _____)				
b					
	(Grants and allocations \$ _____)				
c					
	(Grants and allocations \$ _____)				
d					
	(Grants and allocations \$ _____)				
e	Other program services (attach schedule)	(Grants and allocations \$ _____)			
f	Total of Program Service Expenses (should equal line 44, column (B), Program services).		227,442		

Part IV Balance Sheets (See page 25 of the instructions.)

		(A) Beginning of year		(B) End of year
Note: Where required, attached schedules and amounts within the description column should be for end-of-year amounts only.				
Assets	45 Cash—non-interest-bearing	29,691	45	57,286
	46 Savings and temporary cash investments		46	
	47a Accounts receivable	47a		
	b Less: allowance for doubtful accounts	47b	47c	
	48a Pledges receivable	48a		
	b Less: allowance for doubtful accounts	48b	48c	
	49 Grants receivable	1,000	49	11,729
	50 Receivables from officers, directors, trustees, and key employees (attach schedule)		50	
	51a Other notes and loans receivable (attach schedule)	51a		
	b Less: allowance for doubtful accounts	51b	51c	
	52 Inventories for sale or use		52	
	53 Prepaid expenses and deferred charges		53	
	54 Investments—securities (attach schedule)	<input type="checkbox"/> Cost <input type="checkbox"/> FMV	54	
	55a Investments—land, buildings, and equipment: basis	55a		
	b Less: accumulated depreciation (attach schedule)	55b	55c	
	56 Investments—other (attach schedule)		56	
	57a Land, buildings, and equipment: basis	57a 11,254		
	b Less: accumulated depreciation (attach schedule)	57b 4,309	10,270	57c 6,945
	58 Other assets (describe ► _____)		58	
59 Total assets (add lines 45 through 58) (must equal line 74)	40,961	59	75,960	
Liabilities	60 Accounts payable and accrued expenses	12,061	60	24,886
	61 Grants payable		61	
	62 Deferred revenue		62	
	63 Loans from officers, directors, trustees, and key employees (attach schedule)		63	
	64a Tax-exempt bond liabilities (attach schedule)		64a	
	b Mortgages and other notes payable (attach schedule)		64b	
	65 Other liabilities (describe ► _____)		65	
66 Total liabilities (add lines 60 through 65)	12,061	66	24,886	
Net Assets or Fund Balances	Organizations that follow SFAS 117, check here <input checked="" type="checkbox"/> and complete lines 67 through 69 and lines 73 and 74.			
	67 Unrestricted	28,900	67	29,294
	68 Temporarily restricted		68	21,780
	69 Permanently restricted		69	
	Organizations that do not follow SFAS 117, check here <input type="checkbox"/> and complete lines 70 through 74.			
	70 Capital stock, trust principal, or current funds		70	
	71 Paid-in or capital surplus, or land, building, and equipment fund		71	
	72 Retained earnings, endowment, accumulated income, or other funds		72	
73 Total net assets or fund balances (add lines 67 through 69 or lines 70 through 72; column (A) must equal line 19; column (B) must equal line 21)	28,900	73	51,074	
74 Total liabilities and net assets / fund balances (add lines 66 and 73)	40,961	74	75,960	

Form 990 is available for public inspection and, for some people, serves as the primary or sole source of information about a particular organization. How the public perceives an organization in such cases may be determined by the information presented on its return. Therefore, please make sure the return is complete and accurate and fully describes, in Part III, the organization's programs and accomplishments.

Part IV-A Reconciliation of Revenue per Audited Financial Statements with Revenue per Return (See page 27 of the instructions.)

Part IV-B Reconciliation of Expenses per Audited Financial Statements with Expenses per Return

a Total revenue, gains, and other support per audited financial statements **▶** **a** **310,655**

b Amounts included on line **a** but not on line 12, Form 990:

(1) Net unrealized gains on investments \$ _____

(2) Donated services and use of facilities \$ _____

(3) Recoveries of prior year grants \$ _____

(4) Other (specify): _____

_____ \$ _____

Add amounts on lines (1) through (4) **▶** **b**

c Line **a** minus line **b** **▶** **c** **310,655**

d Amounts included on line 12, Form 990 but not on line **a**:

(1) Investment expenses not included on line 6b, Form 990 \$ _____

(2) Other (specify): _____

_____ \$ _____

Add amounts on lines (1) and (2) **▶** **d**

e Total revenue per line 12, Form 990 (line **c** plus line **d**) **▶** **e** **310,655**

a Total expenses and losses per audited financial statements **▶** **a** **286,308**

b Amounts included on line **a** but not on line 17, Form 990:

(1) Donated services and use of facilities \$ _____

(2) Prior year adjustments reported on line 20, Form 990 \$ _____

(3) Losses reported on line 20, Form 990 \$ _____

(4) Other (specify): _____

_____ \$ _____

Add amounts on lines (1) through (4) **▶** **b**

c Line **a** minus line **b** **▶** **c** **286,308**

d Amounts included on line 17, Form 990 but not on line **a**:

(1) Investment expenses not included on line 6b, Form 990 \$ _____

(2) Other (specify): _____

_____ \$ _____

Add amounts on lines (1) and (2) **▶** **d**

e Total expenses per line 17, Form 990 (line **c** plus line **d**) **▶** **e** **286,308**

Part V List of Officers, Directors, Trustees, and Key Employees (List each one even if not compensated; see page 27 of the instructions.)

(A) Name and address	(B) Title and average hours per week devoted to position	(C) Compensation (If not paid, enter -0-)	(D) Contributions to employee benefit plans & deferred compensation	(E) Expense account and other allowances
See attached list				
Dorene Bolze 201 Deerfield Lane, Franklin, TN 37065	Executive Director, 40	43,761	0	0

75 Did any officer, director, trustee, or key employee receive aggregate compensation of more than \$100,000 from your organization and all related organizations, of which more than \$10,000 was provided by the related organizations? **▶** Yes No
 If "Yes," attach schedule—see page 28 of the instructions.

Part VI Other Information (See page 28 of the instructions.)

		Yes	No
76	Did the organization engage in any activity not previously reported to the IRS? If "Yes," attach a detailed description of each activity.	76	<input checked="" type="checkbox"/>
77	Were any changes made in the organizing or governing documents but not reported to the IRS? If "Yes," attach a conformed copy of the changes.	77	<input checked="" type="checkbox"/>
78a	Did the organization have unrelated business gross income of \$1,000 or more during the year covered by this return?	78a	<input checked="" type="checkbox"/>
b	If "Yes," has it filed a tax return on Form 990-T for this year?	78b	
79	Was there a liquidation, dissolution, termination, or substantial contraction during the year? If "Yes," attach a statement	79	<input checked="" type="checkbox"/>
80a	Is the organization related (other than by association with a statewide or nationwide organization) through common membership, governing bodies, trustees, officers, etc., to any other exempt or nonexempt organization?	80a	<input checked="" type="checkbox"/>
b	If "Yes," enter the name of the organization <input type="checkbox"/> and check whether it is <input type="checkbox"/> exempt or <input type="checkbox"/> nonexempt.		
81a	Enter direct and indirect political expenditures. See line 81 instructions <input type="text" value="81a"/>	81a	
b	Did the organization file Form 1120-POL for this year?	81b	<input checked="" type="checkbox"/>
82a	Did the organization receive donated services or the use of materials, equipment, or facilities at no charge or at substantially less than fair rental value?	82a	<input checked="" type="checkbox"/>
b	If "Yes," you may indicate the value of these items here. Do not include this amount as revenue in Part I or as an expense in Part II. (See instructions in Part III.) <input type="text" value="82b"/>	82b	
83a	Did the organization comply with the public inspection requirements for returns and exemption applications?	83a	<input checked="" type="checkbox"/>
b	Did the organization comply with the disclosure requirements relating to quid pro quo contributions?	83b	<input checked="" type="checkbox"/>
84a	Did the organization solicit any contributions or gifts that were not tax deductible?	84a	<input checked="" type="checkbox"/>
b	If "Yes," did the organization include with every solicitation an express statement that such contributions or gifts were not tax deductible?	84b	
85	501(c)(4), (5), or (6) organizations. a Were substantially all dues nondeductible by members?	85a	
b	Did the organization make only in-house lobbying expenditures of \$2,000 or less? If "Yes" was answered to either 85a or 85b, do not complete 85c through 85h below unless the organization received a waiver for proxy tax owed for the prior year.	85b	
c	Dues, assessments, and similar amounts from members. <input type="text" value="85c"/>	85c	
d	Section 162(e) lobbying and political expenditures. <input type="text" value="85d"/>	85d	
e	Aggregate nondeductible amount of section 6033(e)(1)(A) dues notices. <input type="text" value="85e"/>	85e	
f	Taxable amount of lobbying and political expenditures (line 85d less 85e). <input type="text" value="85f"/>	85f	
g	Does the organization elect to pay the section 6033(e) tax on the amount on line 85f?	85g	
h	If section 6033(e)(1)(A) dues notices were sent, does the organization agree to add the amount on line 85f to its reasonable estimate of dues allocable to nondeductible lobbying and political expenditures for the following tax year?	85h	
86	501(c)(7) orgs. Enter: a Initiation fees and capital contributions included on line 12. <input type="text" value="86a"/>	86a	
b	Gross receipts, included on line 12, for public use of club facilities. <input type="text" value="86b"/>	86b	
87	501(c)(12) orgs. Enter: a Gross income from members or shareholders. <input type="text" value="87a"/>	87a	
b	Gross income from other sources. (Do not net amounts due or paid to other sources against amounts due or received from them.) <input type="text" value="87b"/>	87b	
88	At any time during the year, did the organization own a 50% or greater interest in a taxable corporation or partnership, or an entity disregarded as separate from the organization under Regulations sections 301.7701-2 and 301.7701-3? If "Yes," complete Part IX.	88	<input checked="" type="checkbox"/>
89a	501(c)(3) organizations. Enter: Amount of tax imposed on the organization during the year under: section 4911 <input type="text" value="0"/> ; section 4912 <input type="text" value="0"/> ; section 4955 <input type="text" value="0"/>		
b	501(c)(3) and 501(c)(4) orgs. Did the organization engage in any section 4958 excess benefit transaction during the year or did it become aware of an excess benefit transaction from a prior year? If "Yes," attach a statement explaining each transaction.	89b	<input checked="" type="checkbox"/>
c	Enter: Amount of tax imposed on the organization managers or disqualified persons during the year under sections 4912, 4955, and 4958. <input type="text" value="0"/>		<input type="text" value="0"/>
d	Enter: Amount of tax on line 89c, above, reimbursed by the organization. <input type="text" value="0"/>		<input type="text" value="0"/>
90a	List the states with which a copy of this return is filed <input type="text" value="Tennessee"/>		
b	Number of employees employed in the pay period that includes March 12, 2004 (See instructions.) <input type="text" value="90b"/>	90b	<input type="text" value="1"/>
91	The books are in care of <input type="text" value="Dorene Bolze"/> Telephone no. <input type="text" value="(615) 790-9767"/> Located at <input type="text" value="201 Deerfield Lane, Franklin, TN"/> ZIP + 4 <input type="text" value="37069"/>		
92	Section 4947(a)(1) nonexempt charitable trusts filing Form 990 in lieu of Form 1041—Check here. <input type="checkbox"/> and enter the amount of tax-exempt interest received or accrued during the tax year. <input type="text" value="92"/>		

Part VII Analysis of Income-Producing Activities (See page 33 of the instructions.)

Note: Enter gross amounts unless otherwise indicated.

	Unrelated business income		Excluded by section 512, 513, or 514		(E) Related or exempt function income
	(A) Business code	(B) Amount	(C) Exclusion code	(D) Amount	
93 Program service revenue:					
a Consulting Income					17,122
b					
c					
d					
e					
f Medicare/Medicaid payments					
g Fees and contracts from government agencies					
94 Membership dues and assessments					
95 Interest on savings and temporary cash investments			14	6	
96 Dividends and interest from securities					
97 Net rental income or (loss) from real estate:					
a debt-financed property					
b not debt-financed property					
98 Net rental income or (loss) from personal property					
99 Other investment income					
100 Gain or (loss) from sales of assets other than inventory					
101 Net income or (loss) from special events					
102 Gross profit or (loss) from sales of inventory			05	1,266	
103 Other revenue: a					
b					
c					
d					
e					
104 Subtotal (add columns (B), (D), and (E))				1,272	17,122
105 Total (add line 104, columns (B), (D), and (E))					18,394

Note: Line 105 plus line 1d, Part I, should equal the amount on line 12, Part I.

Part VIII Relationship of Activities to the Accomplishment of Exempt Purposes (See page 34 of the instructions.)

Line No.	Explain how each activity for which income is reported in column (E) of Part VII contributed importantly to the accomplishment of the organization's exempt purposes (other than by providing funds for such purposes).
93a	Consulted with a state of Tennessee contractor regarding water quality issues

Part IX Information Regarding Taxable Subsidiaries and Disregarded Entities (See page 34 of the instructions.)

(A) Name, address, and EIN of corporation, partnership, or disregarded entity	(B) Percentage of ownership interest	(C) Nature of activities	(D) Total income	(E) End-of-year assets
N/A	%			
	%			
	%			
	%			

Part X Information Regarding Transfers Associated with Personal Benefit Contracts (See page 34 of the instructions.)

- (a) Did the organization, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract? Yes No
 - (b) Did the organization, during the year, pay premiums, directly or indirectly, on a personal benefit contract? Yes No
- Note:** If "Yes" to (b), file Form 8870 and Form 4720 (see instructions).

Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than officer) is based on all information of which preparer has any knowledge.

Please Sign Here

Signature of officer: Dorene A Bolze Date: 1 Aug 15, 2005

Type or print name and title: Dorene A Bolze Executive Director

Paid Preparer's Use Only

Preparer's signature: [Signature] Date: 8/11/05 Check if self-employed:

Firm's name (or yours if self-employed), address, and ZIP + 4: Richard Fridge, CPA EIN: Preparer's SSN or PTIN (See Gen. Inst. W):

Phone no.: (615) 383-7717

SCHEDULE A
(Form 990 or 990-EZ)

Organization Exempt Under Section 501(c)(3)

(Except Private Foundation) and Section 501(e), 501(f), 501(k),
501(n), or Section 4947(a)(1) Nonexempt Charitable Trust

Supplementary Information—(See separate instructions.)

OMB No. 1545-0047

2004

Department of the Treasury
Internal Revenue Service

▶ **MUST be completed by the above organizations and attached to their Form 990 or 990-EZ**

Name of the organization Harpeth River Watershed Association, Inc.	Employer identification number 62 : 1802858
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Part I Compensation of the Five Highest Paid Employees Other Than Officers, Directors, and Trustees
(See page 1 of the instructions. List each one. If there are none, enter "None.")

(a) Name and address of each employee paid more than \$50,000	(b) Title and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans & deferred compensation	(e) Expense account and other allowances
None				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
Total number of other employees paid over \$50,000 ▶	0			

Part II Compensation of the Five Highest Paid Independent Contractors for Professional Services
(See page 2 of the instructions. List each one (whether individuals or firms). If there are none, enter "None.")

(a) Name and address of each independent contractor paid more than \$50,000	(b) Type of service	(c) Compensation
John McFadden 688 Speck Road, Lebanon, TN 37087	Scientific Consultant	50,904
.....		
.....		
.....		
.....		
.....		
.....		
Total number of others receiving over \$50,000 for professional services ▶	0	

Part III Statements About Activities (See page 2 of the instructions.)

	Yes	No
1 During the year, has the organization attempted to influence national, state, or local legislation, including any attempt to influence public opinion on a legislative matter or referendum? If "Yes," enter the total expenses paid or incurred in connection with the lobbying activities ▶ \$ _____ (Must equal amounts on line 38, Part VI-A, or line i of Part VI-B.) Organizations that made an election under section 501(h) by filing Form 5768 must complete Part VI-A. Other organizations checking "Yes" must complete Part VI-B AND attach a statement giving a detailed description of the lobbying activities.		✓
2 During the year, has the organization, either directly or indirectly, engaged in any of the following acts with any substantial contributors, trustees, directors, officers, creators, key employees, or members of their families, or with any taxable organization with which any such person is affiliated as an officer, director, trustee, majority owner, or principal beneficiary? (If the answer to any question is "Yes," attach a detailed statement explaining the transactions.)		
a Sale, exchange, or leasing of property?	2a	✓
b Lending of money or other extension of credit?	2b	✓
c Furnishing of goods, services, or facilities?	2c	✓
d Payment of compensation (or payment or reimbursement of expenses if more than \$1,000)?	2d	✓
e Transfer of any part of its income or assets?	2e	✓
3a Do you make grants for scholarships, fellowships, student loans, etc.? (If "Yes," attach an explanation of how you determine that recipients qualify to receive payments.)	3a	✓
b Do you have a section 403(b) annuity plan for your employees?	3b	✓
4a Did you maintain any separate account for participating donors where donors have the right to provide advice on the use or distribution of funds?	4a	✓
b Do you provide credit counseling, debt management, credit repair, or debt negotiation services?	4b	✓

Part IV Reason for Non-Private Foundation Status (See pages 3 through 6 of the instructions.)

The organization is not a private foundation because it is: (Please check only **ONE** applicable box.)

- 5 A church, convention of churches, or association of churches. Section 170(b)(1)(A)(i).
- 6 A school. Section 170(b)(1)(A)(ii). (Also complete Part V.)
- 7 A hospital or a cooperative hospital service organization. Section 170(b)(1)(A)(iii).
- 8 A Federal, state, or local government or governmental unit. Section 170(b)(1)(A)(v).
- 9 A medical research organization operated in conjunction with a hospital. Section 170(b)(1)(A)(iii). Enter the hospital's name, city, and state ▶
- 10 An organization operated for the benefit of a college or university owned or operated by a governmental unit. Section 170(b)(1)(A)(iv). (Also complete the **Support Schedule** in Part IV-A.)
- 11a An organization that normally receives a substantial part of its support from a governmental unit or from the general public. Section 170(b)(1)(A)(vi). (Also complete the **Support Schedule** in Part IV-A.)
- 11b A community trust. Section 170(b)(1)(A)(vi). (Also complete the **Support Schedule** in Part IV-A.)
- 12 An organization that normally receives: (1) more than 33 1/3% of its support from contributions, membership fees, and gross receipts from activities related to its charitable, etc., functions—subject to certain exceptions, and (2) no more than 33 1/3% of its support from gross investment income and unrelated business taxable income (less section 511 tax) from businesses acquired by the organization after June 30, 1975. See section 509(a)(2). (Also complete the **Support Schedule** in Part IV-A.)
- 13 An organization that is not controlled by any disqualified persons (other than foundation managers) and supports organizations described in: (1) lines 5 through 12 above; or (2) section 501(c)(4), (5), or (6), if they meet the test of section 509(a)(2). (See section 509(a)(3).)

Provide the following information about the supported organizations. (See page 5 of the instructions.)

(a) Name(s) of supported organization(s)	(b) Line number from above

- 14 An organization organized and operated to test for public safety. Section 509(a)(4). (See page 5 of the instructions.)

Part IV-A Support Schedule (Complete only if you checked a box on line 10, 11, or 12.) *Use cash method of accounting.*

Note: You may use the worksheet in the instructions for converting from the accrual to the cash method of accounting.

Calendar year (or fiscal year beginning in) ▶	(a) 2003	(b) 2002	(c) 2001	(d) 2000	(e) Total
15 Gifts, grants, and contributions received. (Do not include unusual grants. See line 28.)	97,739	89,927	52,845	2,919	243,430
16 Membership fees received					
17 Gross receipts from admissions, merchandise sold or services performed, or furnishing of facilities in any activity that is related to the organization's charitable, etc., purpose	6,595	9,990			16,585
18 Gross income from interest, dividends, amounts received from payments on securities loans (section 512(a)(5)), rents, royalties, and unrelated business taxable income (less section 511 taxes) from businesses acquired by the organization after June 30, 1975		19	68		87
19 Net income from unrelated business activities not included in line 18					
20 Tax revenues levied for the organization's benefit and either paid to it or expended on its behalf					
21 The value of services or facilities furnished to the organization by a governmental unit without charge. Do not include the value of services or facilities generally furnished to the public without charge					
22 Other income. Attach a schedule. Do not include gain or (loss) from sale of capital assets	14,706				14,706
23 Total of lines 15 through 22	119,040	99,936	52,913	2,919	274,808
24 Line 23 minus line 17	112,445	89,946	52,913	2,919	258,223
25 Enter 1% of line 23	1,190	999	529	29	

26 Organizations described on lines 10 or 11:	a Enter 2% of amount in column (e), line 24	▶	26a	
b Prepare a list for your records to show the name of and amount contributed by each person (other than a governmental unit or publicly supported organization) whose total gifts for 2000 through 2003 exceeded the amount shown in line 26a. Do not file this list with your return. Enter the total of all these excess amounts	▶	26b		
c Total support for section 509(a)(1) test: Enter line 24, column (e)	▶	26c		
d Add: Amounts from column (e) for lines:	18 _____ 19 _____	▶	26d	
	22 _____ 26b _____	▶	26e	
e Public support (line 26c minus line 26d total)	▶	26e		
f Public support percentage (line 26e (numerator) divided by line 26c (denominator))	▶	26f		%

27 Organizations described on line 12: a For amounts included in lines 15, 16, and 17 that were received from a "disqualified person," prepare a list for your records to show the name of, and total amounts received in each year from, each "disqualified person." Do not file this list with your return. Enter the sum of such amounts for each year:

(2003) **12,500** (2002) **18,125** (2001) **2,250** (2000) **0**

b For any amount included in line 17 that was received from each person (other than "disqualified persons"), prepare a list for your records to show the name of, and amount received for each year, that was more than the larger of (1) the amount on line 25 for the year or (2) \$5,000. (Include in the list organizations described in lines 5 through 11, as well as individuals.) Do not file this list with your return. After computing the difference between the amount received and the larger amount described in (1) or (2), enter the sum of these differences (the excess amounts) for each year:

(2003) **0** (2002) **4,900** (2001) **0** (2000) **0**

c Add: Amounts from column (e) for lines:	15 <u>243,430</u>	16 <u>0</u>	▶	27c	260,015	
	17 <u>16,585</u>	20 <u>0</u>	▶	27d	37,775	
	21 <u>0</u>	▶	27e	222,240		
d Add: Line 27a total	<u>32,875</u>	and line 27b total	<u>4,900</u>	▶	27f	274,808
e Public support (line 27c total minus line 27d total)	▶	27g	80.87 %			
f Total support for section 509(a)(2) test: Enter amount from line 23, column (e)	▶	27h	.03 %			
g Public support percentage (line 27e (numerator) divided by line 27f (denominator))	▶					
h Investment income percentage (line 18, column (e) (numerator) divided by line 27f (denominator))	▶					

28 Unusual Grants: For an organization described in line 10, 11, or 12 that received any unusual grants during 2000 through 2003, prepare a list for your records to show, for each year, the name of the contributor, the date and amount of the grant, and a brief description of the nature of the grant. Do not file this list with your return. Do not include these grants in line 15.

Part V Private School Questionnaire (See page 7 of the instructions.)
(To be completed ONLY by schools that checked the box on line 6 in Part IV)

	Yes	No
29 Does the organization have a racially nondiscriminatory policy toward students by statement in its charter, bylaws, other governing instrument, or in a resolution of its governing body?		
30 Does the organization include a statement of its racially nondiscriminatory policy toward students in all its brochures, catalogues, and other written communications with the public dealing with student admissions, programs, and scholarships?		
31 Has the organization publicized its racially nondiscriminatory policy through newspaper or broadcast media during the period of solicitation for students, or during the registration period if it has no solicitation program, in a way that makes the policy known to all parts of the general community it serves? If "Yes," please describe; if "No," please explain. (If you need more space, attach a separate statement.)		
32 Does the organization maintain the following:		
a Records indicating the racial composition of the student body, faculty, and administrative staff?		
b Records documenting that scholarships and other financial assistance are awarded on a racially nondiscriminatory basis?		
c Copies of all catalogues, brochures, announcements, and other written communications to the public dealing with student admissions, programs, and scholarships?		
d Copies of all material used by the organization or on its behalf to solicit contributions?		
If you answered "No" to any of the above, please explain. (If you need more space, attach a separate statement.)		
33 Does the organization discriminate by race in any way with respect to:		
a Students' rights or privileges?		
b Admissions policies?		
c Employment of faculty or administrative staff?		
d Scholarships or other financial assistance?		
e Educational policies?		
f Use of facilities?		
g Athletic programs?		
h Other extracurricular activities?		
If you answered "Yes" to any of the above, please explain. (If you need more space, attach a separate statement.)		
34a Does the organization receive any financial aid or assistance from a governmental agency?		
b Has the organization's right to such aid ever been revoked or suspended? If you answered "Yes" to either 34a or b, please explain using an attached statement.		
35 Does the organization certify that it has complied with the applicable requirements of sections 4.01 through 4.05 of Rev. Proc. 75-50, 1975-2 C.B. 587, covering racial nondiscrimination? If "No," attach an explanation		

Part VI-A Lobbying Expenditures by Electing Public Charities (See page 9 of the instructions.)
 (To be completed **ONLY** by an eligible organization that filed Form 5768)

Check **a** if the organization belongs to an affiliated group. Check **b** if you checked "a" and "limited control" provisions apply.

Limits on Lobbying Expenditures		(a) Affiliated group totals	(b) To be completed for ALL electing organizations
(The term "expenditures" means amounts paid or incurred.)			
36	Total lobbying expenditures to influence public opinion (grassroots lobbying)	36	
37	Total lobbying expenditures to influence a legislative body (direct lobbying)	37	
38	Total lobbying expenditures (add lines 36 and 37)	38	
39	Other exempt purpose expenditures	39	
40	Total exempt purpose expenditures (add lines 38 and 39)	40	
41	Lobbying nontaxable amount. Enter the amount from the following table— If the amount on line 40 is— The lobbying nontaxable amount is— Not over \$500,000 20% of the amount on line 40 Over \$500,000 but not over \$1,000,000 . . . \$100,000 plus 15% of the excess over \$500,000 Over \$1,000,000 but not over \$1,500,000 . . \$175,000 plus 10% of the excess over \$1,000,000 Over \$1,500,000 but not over \$17,000,000. \$225,000 plus 5% of the excess over \$1,500,000 Over \$17,000,000 \$1,000,000	41	
42	Grassroots nontaxable amount (enter 25% of line 41).	42	
43	Subtract line 42 from line 36. Enter -0- if line 42 is more than line 36.	43	
44	Subtract line 41 from line 38. Enter -0- if line 41 is more than line 38.	44	

Caution: If there is an amount on either line 43 or line 44, you must file Form 4720.

4-Year Averaging Period Under Section 501(h)

(Some organizations that made a section 501(h) election do not have to complete all of the five columns below.
 See the instructions for lines 45 through 50 on page 11 of the instructions.)

Calendar year (or fiscal year beginning in) ▶	Lobbying Expenditures During 4-Year Averaging Period				
	(a) 2004	(b) 2003	(c) 2002	(d) 2001	(e) Total
45	Lobbying nontaxable amount				
46	Lobbying ceiling amount (150% of line 45(e))				
47	Total lobbying expenditures				
48	Grassroots nontaxable amount				
49	Grassroots ceiling amount (150% of line 48(e))				
50	Grassroots lobbying expenditures				

Part VI-B Lobbying Activity by Nonelecting Public Charities
 (For reporting only by organizations that did not complete Part VI-A) (See page 11 of the instructions.)

During the year, did the organization attempt to influence national, state or local legislation, including any attempt to influence public opinion on a legislative matter or referendum, through the use of:	Yes	No	Amount
a Volunteers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
b Paid staff or management (Include compensation in expenses reported on lines c through h.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c Media advertisements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Mailings to members, legislators, or the public	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e Publications, or published or broadcast statements	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f Grants to other organizations for lobbying purposes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g Direct contact with legislators, their staffs, government officials, or a legislative body	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h Rallies, demonstrations, seminars, conventions, speeches, lectures, or any other means	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
i Total lobbying expenditures (Add lines c through h.)			

If "Yes" to any of the above, also attach a statement giving a detailed description of the lobbying activities.

Harpeth River Watershed Association, Inc.
Form 990, Year-Ended 12/31/04

Part I, Line 20—Other changes in Net Assets or Fund Balance:

The organization had not recognized any depreciation on its prior year 990's. In the current year, an adjustment was made to record prior year depreciation on the fixed assets.

Part III- Program Service Accomplishments:

1. River Restoration and Watershed Planning, Conservation, and Implementation (\$111,447):

A. River Restoration Program:

HRWA launched its River Restoration Program in 2002 with support from the TN Department of Agriculture's Non-Point Source Program. The main focus of this program is to identify causes of stream impairment, formulate a watershed plan to improve stream water quality and health, implement the restoration plan, and assess whether it is working. The primary focus has been to address sediment load from erosion and streambank or riparian habitat degradation. The River Restoration Program works with local community groups, schools, municipalities, farmers, and landowners to improve the long-term water quality of the Harpeth River watershed by improving stream habitat.

HRWA began seven stream restoration projects in 2003, all of which were on 303(d) segments, with the initial state to conduct a habitat assessment of the impaired streams in the Harpeth (listed on the states 303(d) list) and set priorities. These projects were a range of riparian buffer plantings and installation of cedar revetments, and a rock jetty in Kingston Springs. Importantly, each project involved a range of different partnerships that leveraged our grant funds and those funds of others, sometimes by 4 to 1. A core aspect of our River Restoration Program is a group of technical advisors that provides guidance on design and assessment. For 2004, several corporations and foundations provided support to the program so that projects could be undertaken beyond the main focus of the state 319 grant focus areas. Along the Little Harpeth, the city of Brentwood's park's department hired HRWA to conduct a rapid stream assessment and conduct restoration efforts that have been extensively leveraged with volunteer involvement.

Integral to the River Restoration Program is the Volunteer River Restoration Corps (VRRC) that HRWA created along with the Tennessee Scenic Rivers Association's Duck River Opportunities Project. The VRRC has planted 15,000 (+/-) native seedlings as part of the restoration projects for both the Duck and Harpeth Rivers and addressed over 1500 feet of actively eroding stream banks. In addition, the VRRC installed cedar revetments, as well as helped re-vegetate areas associated with more

intense stream bank stabilization methods, such as rock jetties. As an example of the range of collaboration on restoration projects, Jen-Hill Construction donated design expertise and staff to begin the effort to rebuild the riparian buffer around each picnic table area in Warner Park along the Little Harpeth River. The project was at picnic table #11 and involved Friends of Warner Park, the Cumberland River Compact, Jen-Hill, HRWA, and over 30 VRRC volunteers. Other projects involved the parks departments of the Franklin, Kingston Springs, and Brentwood, Chapman's Retreat Development, homeowners in an older Franklin subdivision, and landowners on the West Harpeth and main stem in the Narrows. Eagle Scouts, Boy and Girl Scout troops, and civic groups are very active volunteer collaborators. HRWA's Science and Technical Advisory Group are a range of specialists who donate their time to provide scientific and technical expertise for this program and to guide and even conduct a range of field studies.

B. Watershed conservation, planning, policy, and landowner outreach:

HRWA's programmatic efforts include working on better development and road design and land use planning, more effective erosion control, encouraging infiltration stormwater management design, improving stream buffers, and similar on-the-ground and long-term solutions that everyone from a homeowner to a planning commissioner can implement. A major state grant (319 grant from the TN Nonpoint source program for \$300,000 that began in September 2003) and a new EPA grant for \$200,000 that began at the end of 2004 support this work. Key HRWA staff continue to receive training on stormwater design and watershed conservation and planning approaches and have developed several partnerships with expertise in various non-profit firms, such as the Center for Watershed Protection, and consulting firms, such as AMEC and CDM.

With the 319 grant, a key focus is on establishing basic watershed plans with local involvement in specific small areas and implementing some of the recommended restoration practices. HRWA's efforts focus on both agricultural areas and suburbanizing areas. As of the end of 2004, the agricultural sub-watershed will be in the headwaters around Eagleville. The first major landowner workshop in collaboration with the mayor and NRCS district conservationist with over 40 attendees was held in January 2005.

Another big agricultural restoration effort was identified by HRWA and we helped secure land owner interest in what at the moment is the largest, in length, project of the new TN Stream Mitigation Program. The lower West Harpeth project, bridge to bridge, was identified as a major area of erosion by HRWA's Visual Stream Assessment which was provided to the TSMP staff for their use. Success in landowner participation was hinged on HRWA relationships with key landowners to build some trust in working with the state and signing an agreement that restricts some uses of the 100 foot buffer along the riverbank that would cause erosion.

HRWA is also subcontracted via EME by TDOT to conduct a survey of restoration opportunities in the Turnbull Creek watershed, another agricultural area. Because of major violations of erosion control requirements on SR 840 in Dickson,

TDOT and the road builders were levied significant fines and \$500,000 in supplemental environmental funds. HRWA worked with TDEC and TDOT in 2003 to suggest that these funds could be used to address the tons of sediment in the creeks if warranted and conduct other stream habitat restoration projects.

A significant focus of these two government grants and other HRWA collaborations is to incorporate Better Site Design/Low Impact Development approaches into land use planning and local ordinances to protect and restore water quality. In 2004, all the developers proposing large residential and mix use developments in Five Mile Creek were approached and HRWA is working with them all on this effort. By the end of 2004, the effort begun under the state 319 grant for a suburban subwatershed plan became the focus of the new EPA grant on Five Mile Creek where the city of Franklin's southern growth is planned to occur. The residential development of 1400 homes on the Ladd Farm worked very closely with HRWA, hired AMEC to design as much stormwater infiltration as possible to be a model on many of the better site design approaches. All the developments in the area are official partners with HRWA along with Franklin and Williamson County on the EPA grant. The purpose of the EPA grant is to explore how stormwater and land-use planning can be designed to help meet water quality and drinking water protection goals with a focus on using subwatershed planning and implementation that is a transportable process to other municipal governments. The goal is to development plans that either remove streams from the state 303(d) list when impaired, or maintain healthy stream/river conditions.

HRWA also worked as a collaborator with the Cumberland River Compact's EPA grant that began in 2003. Key elements of this \$600,000 3-year grant is a suburban style development in the Harpeth River Watershed (there are two others in the Red and Mill Creek) to demonstrate watershed protection and energy efficient home construction in a development on a 303d stream and conduct restoration efforts on that same stream and assess the impacts on water quality. In addition, HRWA set up a number of presentations and meetings, some with stormwater design experts such as AMEC, with major developers, design and engineering firms. In the Harpeth River/Nashville Metro region there are a number of key developers, land design and engineering firms that are the major players. If they become comfortable and knowledgeable of the new or modifying local stormwater regulations and better site design principles and embrace them, much of the approaches will become accepted and used readily. Examples of many key practices from incorporating 100-foot stream buffers, pervious pavement, infiltration of stormwater design and others are now in the works or in place in the region because of efforts of many entities. HRWA's efforts also include tracking the planning commissions around the watershed for development proposals in critical areas and discussing better site design options and any issues specific to affecting water quality with those involved in the proposals. Development concept plans, proposals to relocate large sections of streams, or to do large cut and fill in the floodplain have been modified as a result of our efforts. Many developers are now contacting HRWA, CRC and others to get input when ideas are development ideas are in the beginning stages.

Complementary to specific work with developments to incorporate low impact development principles, is work at the local and state level on stormwater regulations. The Executive Director served on the Williamson County Stormwater Advisory Committee which oversaw the development of a new county stormwater ordinance. She now will serve on the stormwater appeals board. The new ordinance was adopted in December 2004. A significant feature is the state's most progressive approach to requiring appropriately sized natural stream buffers. The Executive Director also participated in Franklin's special Goose Creek subarea plan which covers Five Mile Creek watershed. The main focus was to bring watershed conservation principles into the land use plan for the area and a larger, 50-foot stream buffer was adopted.

HRWA also provided advice on open space conservation approaches to several efforts begun in 2004 to lay the foundation for a new Williamson County land use plan and efforts in Franklin to explore techniques for protecting open space.

HRWA expanded its outreach efforts in 2004 for landowners whether agricultural, large lot owners, or those with small subdivision lots. HRWA developed its first RiverSmart Festival, held in April, to provide an array of tips and information. Materials were developed on using rain barrels (including how to order them), planting a rain garden, and native species for streambank areas. Existing national RiverSmart water conservation tips were utilized, and the many excellent materials targeted to farmers pulled together as well. HRWA staff conducted workshops and training sessions and formed outreach partnerships with an array of entities from garden clubs and plant nurseries to city and state efforts, such as Keep Williamson County Beautiful. HRWA collaborated with various local river clean-up efforts and Arbor Day efforts and gave numerous presentations to civic clubs of all kinds around the watershed.

Outreach also was specifically targeted to specific audiences in 2004. HRWA held two "Roundtables" around meals supported by sponsors for the elected leaders and municipal staff for Franklin and Williamson County. Smaller meetings were held with the city of Peagram and Dickson County leadership. Presentations were given and discussions held with all the Soil Conservation Districts and NRCS District Conservationists that cover the Harpeth. These entities are very effective in reaching the agricultural leadership

HRWA outreach also included the third annual newsletter, 16 pages that can be read on the web site (harepthriver.org), and numerous electronically based *Harpeth River eNews*. The *eNews* enables us to communicate to the Volunteer River Restoration Corps on upcoming projects, and to all our supporters and partners regarding program issues throughout the year in a cost effective manner. Additionally, our web site continued to be wonderfully maintained on volunteer time. Also we organized the first series of fun outings that included hikes, canoe trips, and archeological trips around the Harpeth with experts volunteering their time to lead these trips.

2. State Conservation Policy (\$79,605):

HRWA also engages in shaping water pollution and watershed conservation policy as a complementary effort to the on-the-ground river restoration, planning, and assessment program efforts. HRWA's focus on state conservation policy is driven and directly related to our work with specific situations or watershed conservation implementation within the Harpeth. HRWA's policy efforts focus on state permitting, land use and transportation planning to incorporate watershed and water quality goals, and the broader aspects of development and growth. Much of HRWA's state conservation policy work is supported with general funds from donors and membership.

A major HRWA focus in 2003 on the city of Franklin's proposal to increase drinking water withdrawals from the Harpeth was not accepted by TDEC. During 2004, TDEC took several months to ultimately inform the city that the permit application was incomplete having not provided an assessment that the proposal would not "harm" the river or would enable this area of the river to maintain its designated uses for recreation and fish and aquatic life.

HRWA reviewed and provided field data to TDEC for its draft 2004 303(d) list. As a result, several listings were adjusted. In 2004, EPA approved the state's revisions to its Water Pollution Control Act regulation and standards without supporting the change in the Dissolved Oxygen standard that would have affected the upper Harpeth. This was a successful outcome of HRWA efforts to review the scientific studies and provide input to TDEC and EPA regarding concerns with this proposed change in a water quality standard.

Related to the efforts to work with developers and municipal governments on how to design development to reduce water quality impacts, is the challenges with poor implementation of regulatory requirements. HRWA responds to inquiries or calls regarding possible violations of local and state requirements to keep soil from leaving construction sites and related permit issues. Staff informed contractors on several sites, offered suggestions, and HRWA is conducting a study of the effectiveness of current construction permit regulations.

HRWA tracks state permit applications in the Harpeth river watershed and spent considerable time on several key ones when they have particular statewide policy implications and/or water quality impacts. Several involved proposals to relocate long stretches of stream for development plans that were addressed before major financial commitments were made. At the end of 2004 a proposal to build a large private earthen dam in headwaters of the South Harpeth was submitted to the Corp of Engineers. The bulk of this work was done in 2005 and will be reported then. Also beginning in the end of 2004, was a proposal for a very large alternative sewer system with land application of the effluent for a small town of Thompson's Station (population 1800). Much of the work on this emerging issue of new sewage treatment approaches coming into the region to enable dense growth in previously "undevelopable" areas occurs in 2005.

As a result of expanding efforts on state and federal permitting and water conservation policy, HRWA helped facilitate the start of an effort among most of the

environmental/conservation groups in the state that focus on water issues. The first meeting was held in late 2004 to begin looking at ways to collaborate, discuss water conservation issues, and prioritize efforts to collaborate on addressing them. Issues raised specific to HRWA's experiences in the Harpeth include state ARAP permitting limitations for water withdrawals, the anti-degradation policy process, the construction stormwater permitting process, and the dramatic increase in use of alternative sewer/land application systems.

HRWA also focused on the design and pace of the shut-down of the Metallico Battery recycling plant on the Harpeth in College Grove. The new ownership inherited an actively eroding battery casing dump right on the river that was moved and capped on site. Though this site of raw lead into the river and drinking water was known for years by EPA and TDEC, it was finally addressed when the facility was shut-down and that permitting process required that the dump be addressed. HRWA met with the consulting firm and TDEC to address concerns that the work happened to occur in the winter and the rains made the conditions unworkable to secure the exposed soil laced with lead. Soil was documented going into the Harpeth before it was stabilized.

The Executive Director was asked to serve on the TDOT context sensitive design team established in September 2004 to address how to re-align and design the final segment of SR 840 that was halted by litigation. HRWA engages in road design and construction issues as they relate to the effect of watershed health. The history of 840 involved egregious violations of erosion controls on the segment in Dickson that resulted in tons of dirt entering the Turnbull creek, part of the Harpeth. The route of 840 proposed was to affect many high quality headwater systems of the Harpeth and significant archeological sites. The work of the team continues into 2005. In addition, HRWA submitted comments regarding water quality considerations of the major road extension around Franklin which is in the same vicinity as the contentious TVA line mentioned just below and to cross over the mainstem of the Harpeth and a large floodplain storage area several times.

In spring 2004, TVA, Franklin, and Southern Land Company ultimately worked out the location of the electrical substation and the final TVA line route was announced. This was a major victory for HRWA's efforts along with so many other entities, including Franklin and the developer. HRWA worked hard for several years to shorten this line and get it routed off the West Harpeth where the need to clear trees under the line would have had a dramatic impact on the West Harpeth's riparian corridor and required costly efforts by TVA to stabilize the river system under the line.

3. Duck River Opportunities Project (\$29,567):

The Duck River Opportunities Project is a program of the Tennessee Scenic Rivers Association (TSRA) that is currently being managed by the Harpeth River Watershed Association. Two staff people for HRWA are also the staff for the TSRA's DROP program. In 2004, DROP worked with five schools in the Duck River watershed: EA Cox Middle (2 teachers), Whitthorne Middle (3 teachers), Spring Hill High (1

teacher), the Farm School (2 teachers) and Hampshire School (1 teacher). All participated by sending young people to local streams to sample water quality, including water chemistry, aquatic insects (benthic macroinvertebrates) and habitat assessments and each event was supervised by DROP staff. DROP staff also went into the classrooms to work with students before field trips to help them understand how watersheds work and how nonpoint source pollution has a major impact on local water quality. Young people also helped plant 1,500 trees along streambanks to help improve riparian zones and stabilize eroding banks. In addition, DROP helped Whitthorne Middle School do its first Youth Summit – an educational program put on by students participating in DROP for their peers. Over 800 students participated overall, learning about chemistry, bugs and nonpoint source pollution, with an emphasis on trying to look for opportunities for improvement.

4. Field study and assessment of watershed health (\$6,823):

A core aspect of our programs is to have the ability to assess watershed health and evaluate changes, land use practices, restoration efforts, regulations and policies. Current emphases for HRWA field studies involve assessment of water quality to guide watershed planning and restoration and implementation, and to study various developments to have locally specific data on water quality effects from development practices and those that incorporate better site design components. Both the 319 state \$300,000 grant and EPA \$200,000 grant include water quality field assessment and studies, but these costs are not broken out from item 2 above to combine here. The total percentage of work in this major program area is closer to 10% if these were combined.

Under the emphasis of water quality assessment, in 2004, HRWA conducted a water quality study of a large property that is currently forested on the South Harpeth and for which the new owner is considering to propose with a zoning change a large Walmart village. HRWA is working with a group of citizens in the area of highway 100/96 to work on the larger issue of supporting the existing Metro land use plan zoning as conservation rural. The field study which has been passed to TDEC found high water quality conditions on the tributaries on the property. An important aspect of protecting watershed health is to focus growth in areas and identify areas for open space and other forms of land use based on how they interact to protect water quality. The South Harpeth is the most pristine river within a 25 mile radius of Nashville according to TDEC and this area from a watershed standpoint needs to be managed to maintain the high water quality. From a smart growth policy perspective, this entails encouraging denser growth in core areas interspersed with land uses (agricultural, forested, parks, etc.) that are natural or managed for more “open” conservation areas. These are the policy issues around this specific property.

Other field assessment work in 2004 includes the continuation of the bank erosion study supported by the 319 grant to get a first estimate quantification of the amount of sediment, the primary pollutant in most of the rivers including the Harpeth, coming from bank erosion. Based on the Harpeth River sediment study, this was a major issue to

address. The sediment study final report was completed in 2004, and then held up to include a short study by USGS for TDEC using the data to calibrate various metrics for reading sedimentation (turbidity, TSS). While experts of HRWA's Technical Advisory Group designed the study, HRWA volunteers and staff managed the project which has been extremely valuable in addressing a complex set of issues by providing data too expensive to get without volunteers.

HRWA continued to development partnerships with academic institutions to enable field studies and assessments, such as the nutrient study in the headwaters (covered by the 319 grant) and a study of lead in the Harpeth. Partnerships included Vanderbilt Geology, Belmont, MTSU, and TN Tech in 2004. Some donated lab space, Vanderbilt professors oversaw student analysis, and all provided students to volunteer, sometimes to meet "in-service" requirements, for the River Restoration Program and somewhat in field studies.

HRWA focused on gathering all existing data on the Harpeth on water quality, wildlife, endangered and threatened species, TMDLs, and related areas to prepare for working on a Science Plan for the Harpeth with USGS and watershed priority setting plan as part of the EPA grant. Some data from HRWA's Visual Habitat Assessment and fish data was converted into GIS format so that it was more accessible to planners that do not use natural resource data typically. HRWA staff also attended training offered by TDEC to learn how to use flow duration curves as a means to guide TMDL and restoration efforts by identifying the primary way the pollutant is reaching the stream. HRWA staff also worked on the Quality Assurance Plans that are required for the state and federal grants with data components. This ensures HRWA field data meets EPA approved protocols so that data are included in state and federal databases for public use.

The second area of field studies, which is the basis for the percentage of program expenses listed above, focuses on specific studies of developments to assess the impact to water quality. Each of the development field studies are earned income supported as contracts with the developer. Each of the three developments being studied is using some aspects of better site design. In 2004, two new field studies began. The pre-development conditions phase was completed for a development near Fairview in a forested setting that includes large stream buffers and deed restrictions on the large properties to prohibit forest clearing. The field study on the Ladd Farm which incorporated very comprehensively low impact development components from large stream buffers, to storm water infiltration design and reforestation of the floodplain was designed in 2004 and will start in 2005. The middle phase of the study of Westhaven's first section was completed at the end of 2003/early 2004.



HARPETH RIVER WATERSHED ASSOCIATION

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