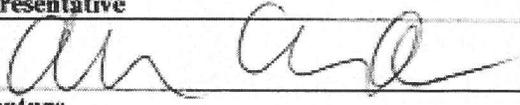


**Arizona Water Protection Fund
Application Cover Page
FY 2017**

Title of Project: Verde River Habitat Improvement Project											
Type of Project: <input checked="" type="checkbox"/> Capital or Other <input type="checkbox"/> Water Conservation <input type="checkbox"/> Research	Stream Type: <input checked="" type="checkbox"/> Perennial <input type="checkbox"/> Intermittent <input type="checkbox"/> Ephemeral										
Your level of commitment to maintenance of project benefits and capital improvements: <input type="checkbox"/> < 5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 11-15 years <input checked="" type="checkbox"/> 16-20 years											
Applicant Information:											
Name/Organization: Friends of Verde River Greenway Address 1: P.O. Box 2535 Address 2: City: Cottonwood State: AZ ZIP Code: 86326 Phone: 928-301-4934 Fax: 928-634-6355 Tax ID No.: 45-2927355	Inside an AMA: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, which AMA: <input type="checkbox"/> Phoenix <input type="checkbox"/> Tucson <input type="checkbox"/> Prescott <input type="checkbox"/> Pinal <input type="checkbox"/> Santa Cruz										
Contact Person:											
Name: Anna Schrenk Title: Program Manager Phone: 951-236-6652 Fax: 928-634-6355 e-mail: anna@verderivergreenway.org	Any Previous AWPf Grants: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please provide Grant #(s): 15-187										
Arizona Water Protection Fund Grant Amount Requested:	Matching Funds Obtained and Secured:										
\$246,448.00 If the application is funded, will the Grantee intend to request an advance: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Applicant/Agency/Organization:</th> <th style="text-align: right;">Amount (\$):</th> </tr> </thead> <tbody> <tr> <td>1. Applicant</td> <td style="text-align: right;">15,829.00</td> </tr> <tr> <td>2. Arizona State Parks</td> <td style="text-align: right;">1,080.00</td> </tr> <tr> <td>3. Walton Family Foundation</td> <td style="text-align: right;">6,056.00</td> </tr> <tr> <td align="right" colspan="2">Total: 22,965.00</td> </tr> </tbody> </table>	Applicant/Agency/Organization:	Amount (\$):	1. Applicant	15,829.00	2. Arizona State Parks	1,080.00	3. Walton Family Foundation	6,056.00	Total: 22,965.00	
Applicant/Agency/Organization:	Amount (\$):										
1. Applicant	15,829.00										
2. Arizona State Parks	1,080.00										
3. Walton Family Foundation	6,056.00										
Total: 22,965.00											
Has your legal counsel or contracting authority reviewed and accepted the Grant Award Contract General Provisions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A											
Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the attached application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The Arizona Water Protection Fund Commission may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.											
Anna Schrenk	Program Manager 951-236-6652										
Typed Name of Applicant or Applicant's Authorized Representative	Title and Telephone Number										
	9-26-14										
Signature	Date Signed										

Arizona Water Protection Fund

FY2017 Funding Cycle

Proposal by

Friends of Verde River Greenway

Verde River Habitat Improvement Project

Executive Summary

Friends of Verde River Greenway (FVRG) is pleased to submit this proposal for a Capital Project to the Arizona Water Protection Fund Commission for the FY 2017 Funding Cycle. Our proposal builds on two projects funded by AZWPF in 2007 (Grant #07-149 WPF) and in 2015 (Grant # 15-187 WPF) as well as the extensive work accomplished since 2012 by the Verde Watershed Restoration Coalition (VWRC), which is a collaborative partnership FVRG is currently coordinating in the Verde Watershed around habitat restoration and community engagement.

In 2010, Verde Watershed stakeholders gathered to discuss and strategize how to cooperatively manage woody invasive plants on a watershed-scale in the Verde. The result of these workshops were the Verde River Cooperative Invasive Plant Management Plan (CIPMP) and a community-based public-private partnership called the Verde Watershed Restoration Coalition (VWRC). The purpose of CIPMP is to implement restoration projects that use a strategic approach to controlling prioritized invasive plants in the riparian areas of the Verde Watershed while increasing stakeholder collaboration. The plan specifically prioritizes tamarisk, tree of heaven, Russian olive, and giant reed as the top four target species threatening the health of the Verde. VWRC is now in year five of successfully implementing CIPMP and is beginning to transition out of initial treatment and will focus on monitoring and maintenance of previously treated sites like the one proposed here. CIPMP also includes social, economic and management goals - all directly related to the project tasks proposed here. The proposed activities will: decrease impacts of non-native species to riparian areas; improve riparian wildlife/fish habitat; create local employment; and inform and engage communities. FVRG/VWRC will collaborate with five partner organizations: Arizona Conservation Corps (AZCC), Vets4Hire, Arizona State Parks, The Town of Clarkdale and the City of Cottonwood on this project. The three main components of the project are:

1. **Invasive Plant Monitoring:** The project area is located in the City of Cottonwood and Town of Clarkdale along a 2.8-mile reach of the Verde River, within Arizona State Parks Verde River Greenway (State Natural Area) and Dead Horse Ranch State Park. The project area is a continuous reach of the river from the Tuzigoot Bridge in Clarkdale, downstream to the 10th Street bridge in Cottonwood, AZ. The project area spans a total of 297 acres on both sides of the river. All four target invasive species were identified in the project area and cover 11.7% of the project area. Over the past three years most populations have been treated once by VWRC Field Crews. Funding would support monitoring within the project areas for two years. Adjacent lands to this proposed project area have been recently treated for target invasive species and are being monitored with other funding sources and volunteers.
2. **Invasive Plant Treatment:** Once the regrowth has been monitored and detected, plants need to be treated in order to ensure successful removal of the target species and to protect past

investments in the initial treatment of nearby project sites. This project area is downstream of the 47-mile stretch treated, monitored and retreated with the 2015 AZWPF grant.

3. **Public outreach and volunteering:** VWRC will work with Arizona State Parks, City of Cottonwood, and the Town of Clarkdale to plan and implement a volunteer event in this project area. The project area lies in a highly visible, highly used section of the Verde River Greenway, starting at the Tuzigoot River Access Point and passing through Old Town Cottonwood, the Jail Trail and into Dead Horse Ranch State Park. The volunteer event(s) will emphasize community involvement, community outreach and bringing Town of Clarkdale and the City of Cottonwood residents together.

The overarching goal of this project is to improve riparian function and habitat on the Verde River while bringing communities together to emphasize the importance of maintenance and monitoring while providing local young adults and veterans with job skills and experience.

Project Overview

Background: One of the most significant natural resources in Arizona is the Verde River and its diverse riparian forests. These riparian areas sustain a large regional wildlife population, provide habitat for migratory birds, and serve as a centrally important economic and recreational resource to local communities. Although the river corridor primarily supports native riparian vegetation, invasive species—particularly Tamarisk (*Tamarix spp.*), tree of heaven (*Ailanthus altissima*), giant reed (*Arundo donax*) and Russian olive (*Elaeagnus angustifolia*)-- threaten the health and sustainability of these communities on the Verde River.

The Verde Watershed Restoration Coalition (VWRC) is a public/private partnership working collaboratively to improve riparian health on a watershed scale. In 2010 VWRC initialized the development of its Cooperative Invasive Plant Management Plan (CIPMP) to control priority invasive plants in the riparian areas of the Verde Watershed while increasing stakeholder collaboration. In 2015 the Arizona Water Protection Fund funded VWRC to treat and monitor invasive plants on a 47 miles reach along the Upper Verde over the span of three years. Part of this project was to retreat and monitor areas that had been previously treated by VWRC and by EcoResults. Both of these projects emphasized the importance of monitoring and the need for multiple treatments in one area. Our proposal addresses this need on a project site directly downstream from the previously funded project site where the initial treatment was paid for with funding from Freeport McMoran Inc., Yavapai RAC and the Walton Family Foundation.

Since 2012, when VWRC began implementing CIPMP, 7,612 acres have been initially treated and 522 acres have been monitored and retreated. Some project sites are already getting their second round of retreatment. VWRC has been able to accomplish this through participation and financial support from our partners, including Arizona Conservation Corps, US Forest Service, Arizona State Forestry, Arizona Game and Fish Department, US Fish and Wildlife Service, AZ State Parks, local governments, local businesses such as The Vetraplex and Verde Valley Weed Control and over 221 private landowners as well as dedicated volunteers and students.

Goals: The overarching goals of this proposed project are to continue to improve riparian habitat and function by managing invasive plant that threaten the biodiversity and long term health of the Verde River through cooperative stakeholder participation. Three specific project goals are:

1. Monitor and maintain previous invasive woody plant treatments through careful data collection and integrated control methods within the riparian corridors of the Verde River and its tributaries.
2. Increase community and public involvement in the hands on removal of invasive plants as well as monitoring of treatments in this highly used public area in order to increase knowledge and understanding of the impacts of invasive plants and the ecological, social and economic importance of the riparian areas.
3. Educate, train and employ local conservation corps members and military veterans to effectively perform restoration practices.

Objectives:

1. FVRG will secure a contract with AZCC and the Vetraplex to provide field labor to monitor invasive plant regrowth from 297 acres along 2.8 miles of the Verde River on land managed by Arizona State Parks in the communities of Clarkdale and Cottonwood, AZ.
2. FVRG will secure a contract with AZCC and with the Vetraplex to provide field labor to retreat invasive plant regrowth from 297 acres along 2.8 miles of the Verde River.
3. FVRG/VWRC and AZ State Parks will plan and implement two volunteer events (one annually) along this stretch of the river to engage our local community in stewardship activities.

Statement of Problem: Invasive plants can impact ecosystem function significantly by altering wildlife habitat, soils, flow and fire regimes, vegetation structure, river geomorphology and biodiversity. The Verde River is one the most substantial free flowing rivers in Arizona; an arid landscape where scarce surface water and riparian areas provide critically important resources for both humans and wildlife. Although the initial removal of invasive plants has already taken place, there is still work to be done in order to protect the health and sustainability of the native plant communities within this heavily used area. The general public is typically unaware of invasive plant issues and the many values of a healthy river system.

Statement of solutions: This proposed project will provide trained field crew labor to address the increasing threat to our riparian areas from invasive plants by implementing the often overlooked maintenance and monitoring critical to a successful restoration project. VWRC realizes the importance of the early detection rapid response technique to controlling invasive plants. However, the same attention needs to be paid to the continued monitoring of these project sites. Detecting regrowth early and collecting data to later analyze to determine the reason for regrowth is key to continued success in controlling these invasive plants. High priority areas include sites in the upper reaches of the watershed and tributaries that are a constant source of seed and propagules for downstream areas; areas with high wildlife value; sites with tamarisk and tree of heaven greater than 10% of the total canopy cover; areas with the presence of Russian olive and giant reed (zero tolerance species) and areas that are at high risk for fire. Within this 297-acre project area 34.5 acres are infested with target invasive plants or 11.7%, whereas on the Upper Verde project, funded by the AWPf in 2015, there were only 31.4 acres of the

2301-acre project area that were infested with target invasives or 1.4%. The cost per acre of this project is greater than the Upper Verde project for a couple of reasons; increase in densities of target invasive plants and the increased cost of treating both Giant Reed and Tree of Heaven. We have calculated from past project work that it takes our crews on 5 hours to remove either tamarisk or Russian olive from one acre, whereas it takes 230 hours to remove one acre of Giant Reed and 25 hours per acre of Tree of Heaven. The fact is the cost of treatment of invasive plants on the Verde River increases as population increased. The proposed project site is adjacent to areas that have all already been initially treated and adjacent to many sites that have already been retreated as well.

Crews will begin by monitoring the area following VWRC's monitoring protocol. This monitoring will collection spatial data to show location and size of invasive plant regrowth patches. The crew will use tablets and data collection software to monitor the native recruitment happening in the area post treatment. This area was treated during the 2014/2015 season and the 2015/2016 season. Part of the monitoring includes collecting data for the Post Treatment Rapid Assessment which inquiries about erosion, native plant recruitment, secondary invasive growth, human disturbance and other various concerns. This data is used to measure treatment effectiveness and to plan for the retreatment of sites. Friends staff Field Data Coordinator/GIS Specialist will process and analyze all field data and provide information for reports. In the past Friends has hired AmeriCorps to fill this Field Data Coordinator role, a less expensive option but lacking in professional experience necessary.

Crews will use a variety of manual (hand pulling, loppers and hand saws), mechanical (chainsaws) and chemical methods to retreat tamarisk, Russian olive, giant reed and tree of heaven in this area that has been initially treated. The crews will use a cut stump method for tamarisk, Russian olive and giant reed removal with the application of Imazapyr (Habitat) and Glyphosate (Rodeo). The tree of heaven will be treated with a hack and squirt method and the application of triclopyr (Element 3a). All three of these chemicals are aquatically approved by the EPA. Prior to fieldwork, all crewmembers will complete an herbicide handlers course administered by Arizona State Department of Agriculture, Environmental Service Division and a minimum of two crewmembers shall hold current Arizona Commercial Applicator Licenses. Following the recommendations of the USFS and chemical labels for the herbicide being used, all treatment will occur during the dormant season (September to February), to ensure herbicide translocation to the plants roots. Biomass will be scattered above the high water mark and/or habitat piles will be built for small mammal habitat.

Volunteers will hand pull tree of heaven during times of the year when the soil is moist and the entire root can be pulled out. VWRC has seen great success with this method in nearby areas. This activity will engage local members of the community and will allow VWRC to convey the benefits a healthy river provides to wildlife and people. This sort of community involvement and "buy in" from individuals is what makes this program a success and ensures that the river will be taken care of and protected in the future.

Statement of Project Years of Benefit: The activities described in this proposal will have many years of ecological, social and economic benefits in the project area and in the greater Verde watershed. This project will ensure that invasive plant treatments continue to be successful. VWRC's organizational capacity and field tested protocols will support the continued monitoring and project maintenance for many years following this project. The volunteer events and community engagement could have a lasting effect on our community's support of watershed conservation and riparian restoration projects.

Scope of Work

This proposed project is composed of three distinct action items: 1) monitoring previously treated areas of the Verde River between Clarkdale and Cottonwood, 2) treating invasive regrowth along this stretch of the river and 3) planning and implementing two volunteer events in conjunction with Arizona State Parks to engage the community in stewardship activities. These actions will build upon the work completed and underway by VWRC field crews and others, while accomplishing the common goal of cooperatively managing invasive plants.

Task 1: Permits, Authorizations, Clearances and Contracts

Task Description: FVRG shall work with Arizona State Parks to obtain and submit to the project manager all authorizations, clearances and contracts and perform any consultations necessary to complete the tasks listed in this scope of work. This task will begin with a formal meeting with personnel from Arizona State Parks to discuss project implementation and compliance.

FVRG will secure a contract with AZCC, and a contract with the Vetraplex, to develop an agreement, which will stipulate that two members from AZCC shall hold a current Commercial Applicator License through the AZ Department of Agriculture. All field crews will take an EPA Herbicide Handlers Course administered by the State.

Task Purpose: To comply with all local, state, and federal permit requirements, environmental laws and regulations, and to obtain legal access to the project areas. Contracts with AZCC and the Vetraplex will ensure we have capacity to accomplish this project.

Deliverable Descriptions: AZCC contract, Vetraplex Contract, herbicide applicator licenses; SHPO clearance, State Parks agreement.

Responsible Personnel: FVRG Program Manager (Anna Schrenk), FVRG Program Assistant (Sara Van Marel), FVRG Program Administrator (Bonnie Sweeny), AZ State Parks Personnel (Dusty Humphreys and George Christianson).

Deliverable Due Date: All project compliance will be completed prior to fieldwork activities.

Reimbursable cost: \$2,482

Task 2: Develop Project Plans

Task Description: FVRG will work with AZSP to develop three separate plans for work associated with implementation of monitoring; implementation of retreatment and implementation of the volunteer activities. All plans will include a detailed description of the work to be implemented during the grant cycle for each action area: Monitoring Implementation, Retreatment Implementation and Volunteer Event Implementation.

Task Purpose: The purpose of this task is to develop plans that provide a clear picture of when and how the work is to be accomplished, to ensure successful outcomes.

Deliverable Description: Develop project plans for monitoring, retreatment and outreach.

Responsible personnel: Program Manager (Anna Schrenk), Program Assistant (Sara Van Marel) and AZ State Parks Personnel

Deliverable Due Date: Year One-August 1, 2017 Year 2-August 1, 2018

Reimbursable cost: \$2,154

Task 3: Implement Monitoring Plan

Task Description: FVRG will implement the monitoring plan developed under Task 2. This plan will use protocol currently being used to monitor other VWRC projects in the watershed. The VWRC monitoring plan utilizes a tiered approach to monitoring, which includes both quantitative and qualitative elements. These approaches will provide: short term monitoring data to evaluate whether actions are meeting management objectives and will provide indicators of whether modifications need to be made (adaptive management) during the process; long term monitoring will provide data on changes within the riparian corridor, including native plan recruitment. Long term information can be coupled with data on other changes within the riverine system and watershed to provide further insights into system health and function. Monitoring will occur during the growing season, prior to retreatment activities.

Task Purpose: monitoring is an important part of invasive plant management that is often overlooked. Monitoring information is used to adapt management techniques to ensure the long term success of the project and the health of the riparian system.

Deliverable description: An annual report will be developed and submitted to the AZWPF Project Manager after each field season. The report will include a summary of monitoring data and results, and a visual map of monitored sites.

Responsible personnel: FVRG Field Data Coordinator (Emily Garding), FVRG Field Supervisor (Sara Van Marel) contracted AZCC crew, contracted Vetraplex crew, FVRG Program Manager (Anna Schrenk), FVRG Program Administrator (Bonnie Sweeny)

Deliverable Due Date: Year 1-July 30, 2017; Year 2-July 30, 2018

Reimbursable cost: \$40,620

Task 4: Implement Retreatment Plan

Task Description: FVRG shall implement the Retreatment Plan developed under task 2. The plan will include a detailed description of the work to be implemented during the grant cycle. In total FVRG and VWRC partners will retreat 297 acres after monitoring occurs, along a 2.8-mile stretch of river. Crews will use a variety of manual, mechanical and chemical control methods and techniques, which are currently being used by the forest service and conform to industry standards.

Task Purpose: To retreat tamarisk, Russian olive, giant reed and tree of heaven in order to reduce tamarisk and tree of heaven infestations to less than 10% of the riparian zone within the project area and to eliminate giant reed and Russian olive from the project area.

Deliverable description: xx acres will be retreated during the grant cycle. Results will be provided to the AZWPF Program Manager as part of Task 3 and Task 6.

Responsible Personnel: AZCC crew, Vetraplex crew, FVRG Field Data Coordinator (Emily Garding), FVRG Field Supervisor (Sara Van Marel), FVRG Program Manager (Anna Schrenk)

Deliverable Due Date: April 30, 2018

Reimbursable Cost: \$198,703

Task 5: Implement Volunteer Activities

Task Description: FVRG shall implement the Volunteer Event Plan developed under Task 2. Two volunteer events (one in each year of the grant cycle) will be implemented on the project site. These events will engage local citizens in riparian restoration through invasive plant removal and related activities at public access points: The Jail Trail in the City of Cottonwood and the at Tuzigoot River Access Point in the Town of Clarkdale, both of which are located within the project area. These events will also include an educational component to better inform local community members of the importance of a healthy riparian area and the threat of invasive plants.

Task purpose: Utilize volunteer time to achieve project goals through invasive plant removal. Educate the public about the threats of invasive plants on river systems, especially in the Verde Watershed, the importance of riparian health, and project information. The goal is to create excitement about the Verde watershed through education and hands on activities that motivate people to enjoy the river and get involved.

Deliverable Description: A report that summarizes the events: how many volunteer hours were contributed, the number of participants and what was accomplished at each event.

Responsible Personnel: FVRG Community Outreach Coordinator (Laura Jones), FVRG Outreach AmeriCorps VISTA (Claire Catlett), FVRG Field Supervisor (Sara Van Marel), FVRG Program Manager (Anna Schrenk), AZ State Parks Personnel

Deliverable Due Date: June 1, 2018

Reimbursable Cost: \$1,764

Task 6: Final Report

Task Description: FVRG shall submit a final report to include discussion of all project activities undertaken over the course of the grant, including progress, outcomes and a financial report.

Task Purpose: The final report will document and summarize the entire project, communicating successes and lessons learned in such a way that our project is replicable.

Deliverable Description: Final Report

Responsible Personnel: Field supervisor (Sara Van Marel), Program Manager (Anna Schrenk), Field Data Coordinator (Emily Garding) and Program Administration (Bonnie Sweeny)

Deliverable Due Date: August 30, 2018

Reimbursable cost: \$725

**Project Location & Environmental Contaminant Information
FY 2017**

Project Location Information

1. County: YAVAPAI 2. Section: 28 3. Township: 16E 4. Range: 03E

5. Watershed: Verde
 6. 8 or 10 Digit Hydrologic Unit Code (HUC): 15060202
 7. Name of USGS Topographic Map where project area is located: Cottonwood, AZ
 8. State Legislative District: 06
 (Information available at: <http://azredistricting.org/districtlocator/>)

9. Land ownership of project area: AZ State Parks
 10. Current land use of project area: State Natural Area
 11. Size of project area (in acres): 297
 12. Stream Name: Verde River
 13. Length of stream through project area: 2.8 miles
 14. Miles of stream benefited: 12.8 miles
 15. Acres of riparian habitat: 297 acres will be:

- Enhanced
- Maintained
- Restored
- Created

16. General description and/or delineation for the area of impact of the project within the watershed.
Riparian Area within 100 year FEMA Flood plain. All on Arizona State Park land: Verde River Greenway & Dead Horse Ranch SP

17. Provide directions to the project site from the nearest city or town. List any special access requirements:
I-17 - North Hwy 260 to Cottonwood, turn right on Main St (89A) continue on main st, right on 10th Street. Access of project are is above 10th Street Bridge over Verde R. upstream to Turigpot

Environmental Contaminant Location Information

Call Anna Schenk or Dusty Humphreys for Access

1. Does your project site contain known environmental contaminants? YES NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:
2. Are there known environmental contaminants in the project vicinity? YES NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:
3. Are you asking for Arizona Water Protection Fund monies to identify whether or not environmental contaminants are present? YES NO

**Verde Habitat Improvement Project
Detailed Budget Breakdown**

Task 1				
Permits, Authorizations, Clearance and Contracts	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	30	hrs	\$ 44	\$ 1,316
FVRG Field Supervisor/Program Assistant	24	hrs	\$ 22	\$ 523
Subtotal				\$ 1,839
Other Direct Costs				
Office Supplies and Postage	1	each	\$ 25	\$ 25
ADEQ Pesticide General Permit (Annual Fee \$500/year x 2 years = \$1000/2 (other half is paid by other grants) = \$500	0.5	fee	\$ 1,000	\$ 500
Subtotal				\$ 525
Task Subtotal				\$ 2,364
Administrative Costs (5%)				\$ 118
Task 1 Total				\$ 2,482
Task 2				
Develop Project Plans	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	10	hrs	\$ 44	\$ 439
FVRG Field Supervisor/Program Assistant	40	hrs	\$ 22	\$ 880
FVRG Field Data Coordinator	20	hrs	\$ 31	\$ 612
FVRG Outreach AmeriCorps VISTA	20	hrs	\$ 5	\$ 96
Subtotal				\$ 2,026
Other Direct Costs				
Office Supplies and Postage	1	each	\$ 25	\$ 25
Subtotal				\$ 25
Task Subtotal				\$ 2,051
Administrative Costs (5%)				\$ 103
Task 2 Total				\$ 2,154
Task 3				
Implement Monitoring Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Field Supervisor/Program Assistant	120	hrs	\$ 22	\$ 2,616
FVRG Field Data Coordinator	120	hrs	\$ 31	\$ 3,720
FVRG Field Assistant	120	hrs	\$ 15	\$ 1,842
Subtotal				\$ 6,336
Outside Services				
Arizona Conservation Corps-Year 1	4	week	\$ 4,000	\$ 16,000
Arizona Conservation Corps-Year 2	4	week	\$ 4,000	\$ 16,000
Subtotal				\$ 32,000
Other Direct Costs				
Data Collection Hardware (Tablets)	1	EA	\$ 350	\$ 350
Subtotal				\$ 350
Task Subtotal				\$ 38,686
Administrative Costs (5%)				\$ 1,934
Task 3 Total				\$ 40,620

Task 4				
Implement Retreatment Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Field Supervisor	160	hrs	\$ 22	\$ 3,488
FVRG Field Assistant	160	hrs	\$ 15	\$ 2,456
FVRG Field Data Coordinator	160	hrs	\$ 31	\$ 4,960
Subtotal				\$ 10,904
Outside Services				
Arizona Conservation Corps-Year 1	14	week	\$ 6,200	\$ 86,800
Arizona Conservation Corps-Year 2	14	week	\$ 6,200	\$ 86,800
Verde Valley Weed Control-Year 1	297	acres	\$ 9	\$ 2,658
Verde Valley Weed Control-Year 2	297	acres	\$ 7	\$ 2,079
Subtotal				\$ 178,337
Task Subtotal				\$ 189,241
Administrative Costs (5%)				\$ 9,462
Task 4 Total				\$ 198,703

Task 5				
Implement Volunteer Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Outreach AmeriCorps VISTA	60	hrs	\$ 5	\$ 300
FVRG Field Supervisor/Program Assistant	20	hrs	\$ 19	\$ 380
Subtotal				\$ 680
Other Direct Costs				
Volunteer Appreciation with partner Logos	200	each	\$ 5.00	\$ 1,000
Subtotal				\$ 1,000
Task Subtotal				\$ 1,680
Administrative Costs (5%)				\$ 84
Task 5 Total				\$ 1,764

Task 6				
Final Report	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Assistant	30	hrs	\$ 19	\$ 570
FVRG Field Data Coordinator	20	hrs	\$ 6	\$ 120
Subtotal				\$ 690
Task Subtotal				\$ 690
Administrative Costs (5%)				\$ 35
Task 6 Total				\$ 725

Total Request from AWPf				\$ 246,448
On the Ground Costs (field crews and supplies)	297	acres	x \$708.21=	\$ 210,687
Capacity (Field Supervision, Planning, Reporting)				\$ 35,761

**Upper Verde Habitat Improvement Project
Detailed Matching Breakdown**

Task 1				
Permits, Authorizations and Agreements	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	10	hrs	\$ 44	\$ 438
Subtotal				\$ 438

Other Direct Costs				
ADEQ Pesticide General Permit (Annual Fee \$500/year x 2 years = \$1000/2 (other half is paid by other grants) = \$500	0.5	fee	\$ 1,000	\$ 500
Subtotal				\$ 500
Task Subtotal				\$ 938
Task 1 Total				\$ 938

Task 2				
Develop Project Plans	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	30	hrs	\$ 44	\$ 1,316
Subtotal				\$ 1,316
Other Direct Costs				
Travel	600	miles	\$ 0.545	\$ 327
Subtotal				\$ 327
Task Subtotal				\$ 1,643
Administrative Costs (5%)				\$ 82
Task 2 Total				\$ 1,725

Task 3				
Implement Monitoring Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	10	hrs	\$ 44	\$ 440
FVRG Outreach Director	10	hrs	\$ 31	\$ 310
Subtotal				\$ 750
Other Direct Costs				
Travel	450	miles	\$ 0.545	\$ 245
Subtotal				\$ 245
Task Subtotal				\$ 995
Administrative Costs (5%)				\$ 50
Task 3 Total				\$ 1,045

Task 4				
Implement Treatment/Retreatment Plan	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	20	hrs	\$ 44	\$ 880
FVRG Outreach Director	10	hrs	\$ 31	\$ 310
Subtotal				\$ 1,190
Other Direct Costs				
Travel	150	miles	\$ 0.545	\$ 82
Subtotal				\$ 144
Facilities				
Camping and Storage for Crews	72	nights	\$ 15	\$ 1,080
Subtotal				
Task Subtotal				\$ 2,414
Administrative Costs (5%)				\$ 121
Task 4 Total				\$ 2,535

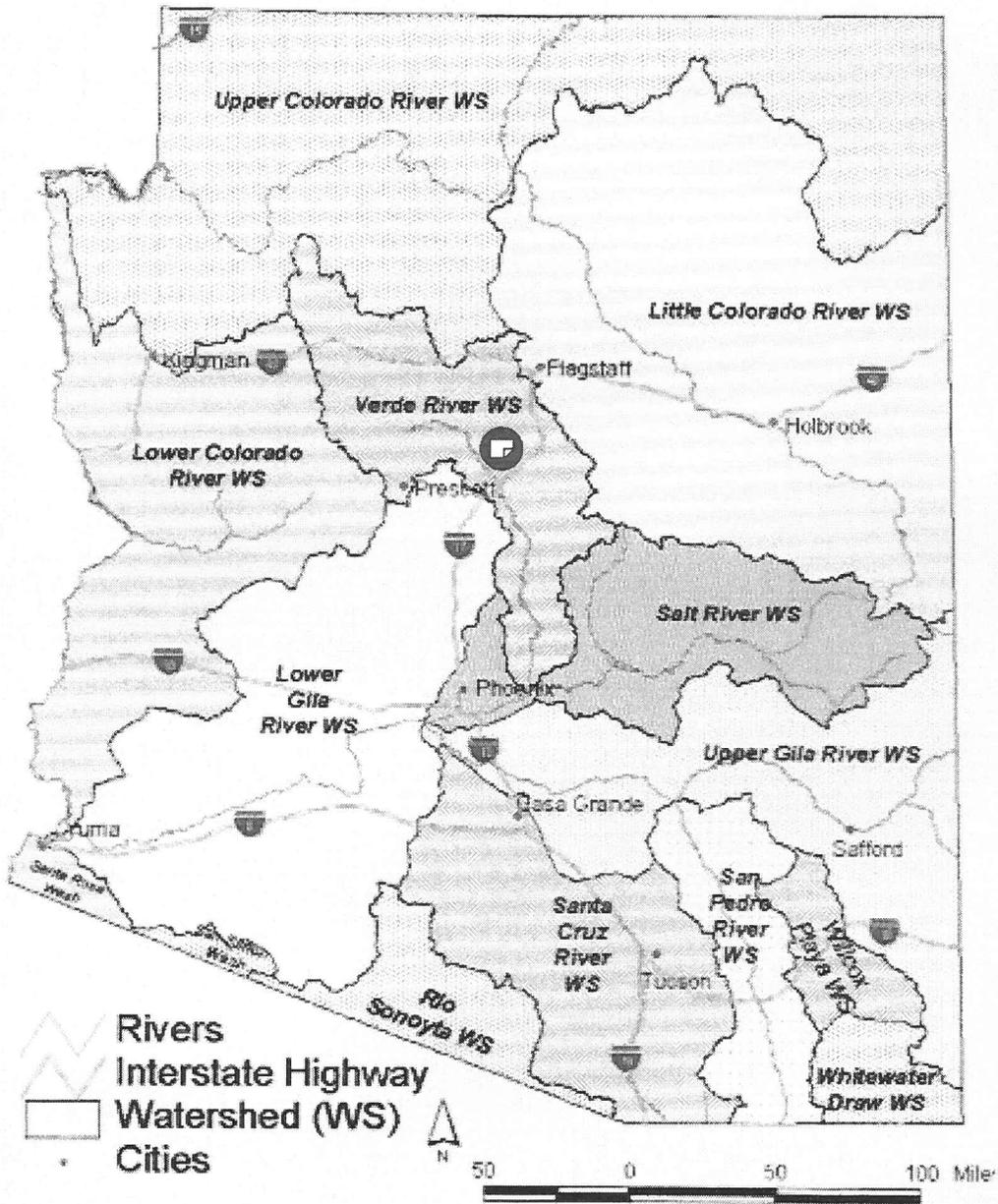
Task 5				
Implement Outreach Plan	Amount	Unit	Cost per Unit	Total Cost

Direct Labor Costs					
FVRG Program Manager	10	hrs	\$ 44	\$ 440	
FVRG Outreach Director	10	hrs	\$ 31	\$ 310	
Volunteers	600	hrs	\$ 23	\$ 13,842	
Subtotal			\$ 44	\$ 14,592	
Task Subtotal				\$ 14,592	
Administrative Costs (5%)				\$ 730	
Task 5 Total				\$ 15,322	

Task 6				
Final Report	Amount	Unit	Cost per Unit	Total Cost
Direct Labor Costs				
FVRG Program Manager	20	hrs	\$ 44	\$ 880
FVRG Outreach Director	10	hrs	\$ 31	\$ 310
Subtotal				\$ 1,190
Other Direct Costs				
Travel	60	miles	\$ 0.545	\$ 33
Subtotal				\$ 144
Task Subtotal				\$ 1,334
Administrative Costs (5%)				\$ 67
Task 6 Total				\$ 1,401

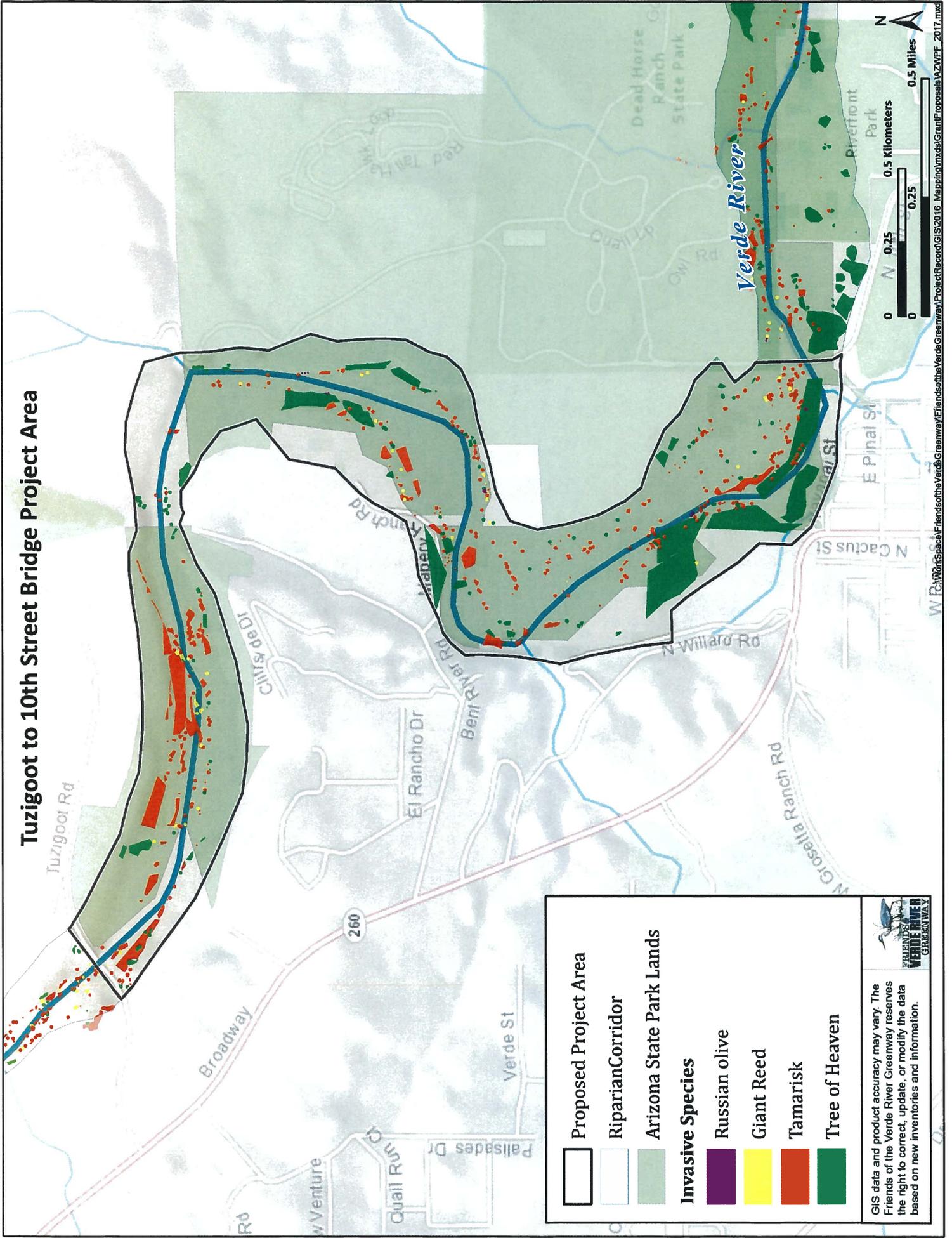
Total Matching Funds	\$ 22,965
Applicant Contributions	\$ 15,829
Walton Family Foundation	\$ 6,056
Arizona State Parks	\$ 1,080

**Arizona Watershed Map
FY 2017**



Title of Project: Verde River Habitat Improvement Project
Location: (UTM's and Tnshp./Sect./Range) S21/T16N/R03E; S22/T16/R03E;
S28/T16N/R03E;S27/T16N/R03E at Dead Horse Ranch State Park and Verde River Grnwy

Tuzigoot to 10th Street Bridge Project Area



	Proposed Project Area
	Riparian Corridor
	Arizona State Park Lands
Invasive Species	
	Russian olive
	Giant Reed
	Tamarisk
	Tree of Heaven

GIS data and product accuracy may vary. The Friends of the Verde River Greenway reserves the right to correct, update, or modify the data based on new inventories and information.

FRIENDS OF THE VERDE RIVER GREENWAY



Town of Clarkdale

P.O. Box 308
Clarkdale, AZ 86324
(928) 639-2400 phone
(928) 639-2409 fax

October 12, 2016

Arizona Water Protection Fund Commission
1110 West Washington, Suite 310
Phoenix AZ 85007

Dear Commission Members,

It is my pleasure to write this letter in support of the Arizona Water Protection Fund proposal submitted by the Friends of the Verde River Greenway for their Verde River Habitat Improvement Project during the FY 2017 funding cycle.

The Town of Clarkdale has been a proud partner with the Friends of the Verde River Greenway and the Verde Watershed Restoration Coalition (VWRC) since the Coalition's inception in 2010. In the intervening six years, VWRC has led the effort to realize the goals originally outlined in the Verde River Cooperative Invasive Plant Management Plan (CIPMP), which was developed as a result of this community-based public-private partnership.

In Clarkdale, VWRC has completed restoration projects that use a strategic approach to controlling prioritized invasive plants in the riparian areas along the Verde River in Clarkdale, including tamarisk, tree of heaven, and giant reed (three species that are threatening the health of the Verde River). Some of the sites along the Verde River in Clarkdale have received initial treatment, retreatment and monitoring. The purpose of this project is to expand the critical need for retreatment and monitoring to downriver locations between the Town of Clarkdale and the City of Cottonwood that have previously received initial treatment.

While the Town of Clarkdale is a small community with limited resources, we are strongly committed to supporting this partner-driven effort. Several years ago, we invested in a tool/equipment trailer that we now supply for the volunteer events that occur along the Verde River in Clarkdale. Fully stocked with the safety equipment and hand tools necessary for volunteers who work on projects in the riparian zone, we value the contribution of this resource at \$750 per event day, and have provided its use on numerous volunteer events in the past 3 years and will contribute its use to the volunteer event scheduled at the Tuzigoot River Access under the tasks outlined in this proposal.

The Historic Town of Clarkdale
www.clarkdale.az.gov

The overarching goal of this project is to improve riparian function and habitat on the Verde River while bringing communities together to emphasize the importance of maintenance and monitoring while providing local young adults and veterans with job skills and experience. We've seen this program work over the last six years in the Verde Valley, and are proud to support the Friends of the Verde River Greenway in their pursuit of additional resources to continue the important work that they do.

Please do not hesitate to contact me if I can provide further information.

Sincerely,

A handwritten signature in cursive script that reads "Gayle Mabery".

Gayle Mabery
Town Manager



AZStateParks.com

Douglas A. Ducey
Governor

Sue Black
Executive Director

State Parks Board
R.J. Cardin, Chairman
Kay Daggett, Vice-Chairman
Mark Brnovich, Phoenix
Alan Everett, Sedona
Shawn Orme, Mayer
Orme Lewis, Jr., Phoenix

October 12, 2016

Arizona Water Protection Fund Commission
1110 West Washington, Suite 310
Phoenix AZ 85007

Dear Commissioners:

The Verde River Greenway State Natural Area (VRGSNA) is an area consisting of nearly 480 acres along a 33-mile stretch of the Verde River. The Verde River and VRGSNA connect the communities and surrounding areas of Camp Verde, Cottonwood and Clarkdale. These small communities depend on the health and wellbeing of the Verde River for recreational and economic opportunities. Arizona State Parks is committed to the protection and restoration of the Verde River and surrounding riparian areas. The riparian areas of the Verde River provide habitat for approximately 20 threatened or endangered species including the Southwestern Bald Eagle, Southwestern Willow Flycatcher, Yellow Billed Cuckoo and Lowland Leopard Frogs. The Fremont Cottonwood & Goodings Willow Riparian Gallery Forest along the VRGSNA is one of five remaining stands in Arizona and one of twenty such stands in the world. Reduction/elimination, control and monitoring of invasive species is critical to the health and sustainability of the Verde River Greenway.

As a dedicated partner of Friends of Verde River Greenway and the Verde Watershed Restoration Coalition (VWRC), our partnership has drastically reduced the spread of noxious and invasive weeds along our watersheds riparian corridors. Arizona State Parks fully supports and will continue to support all efforts to combat the spread of non-native plants along the VRGSNA. Funding for these efforts is crucial and will improve the overall health of the riparian forests within the Verde Watershed. Secure funding for this project will ensure that 260 acres along a 2.8-mile reach within the VRGSNA will be monitored and retreated for two years, this will allow us to meet our goals and improve long-term river health. We are committed to providing in-kind contributions and personnel support to this project and assist Friends with planning and leading volunteer activities along the VRGSNA. ASP and the VRGSNA fully support Friends proposal to the Arizona Water Protection Fund for this Verde River Habitat Improvement Project.

Sincerely,

Dustin D. Humphreys
Verde River Greenway Unit Manager
Arizona State Parks