Subject: Request for response: New Mexico Drinking Water Survey

Dear New Mexico drinking water system affiliate,

Likely one of the most important aspects of sustainably managing your water system is the ability to fund asset rehabilitations or replacements when needed. There are many state and federal funding sources available, but these programs may or may not be adequately meeting your needs. The University of New Mexico, with funding support from the Water Foundation, are conducting this study to better understand communities' needs and concerns about drinking water funding – including what is working and more importantly, what is not. Our findings will be shared with the New Mexico state legislature so that your answers can help inform necessary revisions to the overall funding program within the State of New Mexico. You were selected to participate in this study because you are listed as a contract for a public drinking water system in New Mexico. You may not directly benefit from this research, but the knowledge gained will help us better understand drinking water needs and funding, and your input will be presented during drinking water policy discussions in New Mexico.

If you agree to take part in this study, please complete the survey below. The questions will take approximately 20 to 30 minutes to complete. <u>Your participation in this study is completely voluntary and you can withdraw at any time. You are free to skip any question you choose.</u>

Your survey responses will remain anonymous. Your name and the name of the public water system you manage will remain anonymous in any report resulting from this study. Please answer questions to the best of your knowledge and as truthfully as possible. Your responses are very important to us and any individual response will not be associated with you or your water system in any information shared or published.

By proceeding to the survey questions, you are indicating that you have read and understand this project background and agree to participate in this research study. Please keep this email or cover letter with our contact information for your records. If you would like to request a paper version of the survey, please e-mail us at swefc@unm.edu.

Sincerely,

The research team at the Southwest Environmental Finance Center at UNM and its affiliates

If you have any questions regarding this survey, please contact:

Heather Himmelberger Tucker Colvin

SW EFC Director SW EFC Research Scientist

heatherh@unm.edu tcolvin@unm.edu

(505) 681-7437 (406) 439-3096

Part I: Management

In this section of the survey, we will ask you questions about the management of your public drinking water system. If you are involved in the management of multiple systems, please answer these questions for only one system. However, if you manage multiple systems, you are welcome to fill out the survey for each system you manage.

	What is the name of the public drinking water system you are affiliated with?
•	What is the Public Water System Identification Number (PWSID#) of the public drinking water system you are affiliated with?
	What is your title within your public drinking water system?
	Approximately how many hours per week do you spend working for your public drinking water system?
•	Is your primary residence within the service area of the public drinking water system you are affiliated with?
	□ Yes □ No
	Please rank the top five challenges to your public drinking water system in order of severity. 1 is your biggest challenge.
	Old or deteriorating infrastructure
	Insufficient revenue
	Declining population/rate base
	Difficulty securing grants/loans Difficulty finding or retaining board members
	Difficulty finding or retaining a certified operator
	Complying with water quality regulations
	Complying with other regulations
	Drought/diminishing water supply
	Water supply contamination

	navigat	Other environmental concerns (wildfire, flood, contamination, etc.) Maintaining relationships with water users/other community members Vater rights National development/increased water demand Computer or technology challenges (e.g., lack of a computer, internet, challenges In management) Other; please specify: The concerned with the impacts of drought on your public drinking water system, which of									
7.	•	you are concerned with the impacts of drought on your public drinking water system, which of e following actions have you taken, or would you like to take?									
	Taken	Would like to take	Do not plar	n to take							
	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	□ □ □ vation		Purchase addition Repair leaking inf Promote water sa Implement gradu	rastructure aving fixtures a	amon	~				
		□ □ Implement water conservation program									
				Mandatory water restrictions in severe drought							
				Other; please spe	cify						
8.		I am not concerned bublic drinking water cies do you currently	r system you	are affiliated with	has a board of	f dire	ctors, how many				
	□ 0	□ 1	□ 2	□ 3 □	4 or more		Not applicable				
9.		have vacancies on yo		directors, what is/a	are the main r	easor	ns for the				
		Aging community of Lack of interest in Lack of expertise in Declining community of the significant wood Other; please specific and the significant wood of the significant woo	serving on th n community ity populatic rk or commit	members in ment of being a bo							
		Not applicable									

10. How involved is the board in the management of your public drinking water system?

		Not invo	lved	□ So in	mew volve			Involved		Very inv	olved		Not applicable
11.							_	ree or disagr			llowing	state	ment.
			Strongly disagree			Disagr	ee	□ Neutral		Agree	□ Str	ongly a	agree
12.			have diffi ficulty? S	-		_		ing a certifie	d ope	rator, wh	nat is/aı	re the	main reasons for
			Lack of Compet Inability Inability Other;	certifi tition to pa to ra olease	ed op for ce ass ce ise sa spec	erator rtified rtificati lary ov ify	s in ope ion er t	ime	other	systems		oy high	demand
13.	ası	pect	s of publi	c drin	king v	water r	egu	lotice of Viol lations. Whic ct all that ap	ch of t	-			or violating certair esents your
			Violatio Violatio Violatio Violatio	ns are ns are ns are ns are	e not e fairly e unfa e usef e not	useful f y issued iirly issi ul, but useful,	for one of the control of the contro	municating of communication the state by the state y create too I they create	ing de much too r	eficiencie extra wo nuch ext	s to ma ork for r	nagers manag	ers
			I have r	o per	spect	ive on v	viola	ations					
	Ple	ease	indicate	how	stron	gly you	agı	ee or disagr	ee wi	th the fo	llowing	state	ment.
14.			venue ge blic drink					ity bills (user	char	ges) suffi	ciently	funds t	the operation of
			Strongly disagree		Disa	igree	[□ Neutral		l Agree		Stron _i Agree	

Part II: Funding

In this section, we will be asking you questions about external funding for your public drinking water system. External funding includes all funding sources (e.g., loans and grants) that are not revenue from rate payers including any funding received from the New Mexico Legislature.

15. Are you involved with external funding for your public drinking water system? (e.g., researching

	funding sources, applying for funding, spending grant or loan money)									
		Yes		o – please sk	ip to sectio	n III				
16. For which of the following reasons has your public drinking water system sought external funding? Select all that apply.								ternal		
		Replace aging tanks, pipes, pumps, or facilities Expand existing tanks, pipes, pumps, or facilities Develop new sources of water Rehabilitation of components of the system Install water efficiency/green projects such automated meter infrastructure To meet regulatory requirements (e.g., additional treatment) Expand treatment capacity and/or technology (e.g., improved SCADA system) Purchase water rights Other; please specify:								
		Extremely difficult	☐ Somewhat difficult	at □ Ne	eutral [□ Somewhat easy	Extr	•		
	•	•	ing water syste s your water sy					_		
Fui	nding Sour	rce		Applied for	Received	Received full amount that was requested	In the last 5 years	How easy was it to apply? (easy, medium, hard)		
Ne	w Mexico	Finance Auth	ority							
		inking Water g Loan Fund	State							

Fui	nding Source	Applied for	Received	Received full amount that was requested	In the last 5 years	How easy was it to apply? (easy, medium, hard)
	NMFA Public Project Revolving Loan Fund					
	NMFA Water Project Fund/Water Trust Board					
	Local Government Planning Fund					
Ne	w Mexico Environment Department					
	Rural Infrastructure Program					
US	DA Rural Development					
	Water and Waste Disposal Direct Loans and Grants					
	Water and Waste Disposal Guaranteed Loan					
	Water and Waste Disposal Predevelopment Planning Grants					
	Emergency Community Water Assistance Grants					
	Business and Industry Guaranteed Loan					
	Water and Waste Disposal Revolving Fund					
	Individual Water and Wastewater Grants					
	New Mexico Department of Finance and Administration					
	Community Development Block Grant					

Fui	nding Source	Applied for	Received	Received full amount that was requested	In the last 5 years	How easy was it to apply? (easy, medium, hard)
	Community Development Block Grant Colonias Set-Aside					
	Community Development Block Grant (Planning)					
	Board of Finance Emergency Loan or Grant					
	onomic Development Administration, partment of Commerce					
	Public Works Program					
	Economic Adjustment Program					
Na	tional Rural Water Association					
	Revolving Loan Fund					
Ru	ral Community Assistance Corporation					
	Environmental Infrastructure Loans					
Со	Bank					
	Rural Water and Wastewater Lending					
Ne	w Mexico Indian Affairs Department					
	Tribal Infrastructure Fund					
US	EPA					
	Water Infrastructure Finance and Innovative Act (WIFIA)					
	Department of the Interior – Bureau Reclamation					

Funding Source	Applied for	Received	Received full amount that was requested	In the last 5 years	How easy was it to apply? (easy, medium, hard)
WaterSMART Grants: Small Scale Efficiency Projects					
WaterSMART Grants: Water Marketing					
Title XVI Water Reclamation & Reuse Programs					
Drought Response Program: Drought Resiliency Projects					
New Mexico State Legislature					
Capital Outlay Funding					
North American Development Bank (NAD Bank)					
Project Development Assistance Program					
Army Corps of Engineers					
Section 219: Environmental Infrastructure					
Small Business Administration					
504 Fixed Asset Program (Certified Development Company)					
7(a) Loan Guarantee					
Community Advantage Pilot					
Microloan Program					
Live Oak Bank					
Water and Environmental Program					

Fu	inding Source	Applied for	Received	Received full amount that was requested	In the last 5 years	How easy was it to apply? (easy, medium, hard)			
Pri	ivate Bank; specify below								
Ot	ther; specify below								
	19. The table above lists the funding sources in New Mexico. Were you aware that there were this many funding sources for public water system?								
	☐ Yes ☐ Some but not	all ⊔	Only a fe familiar	w were	□ No				
	20. For the most recent grant or loan you were trying to complete?	ou receive	d, how suffi	cient were th	ne funds for th	e project			
	☐ Completely ☐ Partially sufficient sufficient		Not sufficient		Not applicable	•			
	21. What are the factors that you use to that apply in order of importance, 1	. being the	most impo	rtant, maxim		lease rank all			
	Recommendation from NME Recommendation from non- Recommendation from priva Recommendation from commendation from commendation from neightour from neightour from neightour from neightour from search Ease of application process Known success rate of receivting funding agency Other; please elaborate:	governmente consultations and the consultations and the consultations are seen to be a consultations and the consultations are seen to be a consultations and the consultations are seen to be a consultations and the consultations are seen to be a consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultations are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a consultation and the consultation are seen to be a	nt organizat ants (e.g., e der (e.g., ma ter system	ion (e.g., NM ngineering or ayor, congress	r accounting fi	rm)			

22.	When	you have	e applied for gra	nts or loans, did	I an outside org	ganization or	individual assist y	ou?
		Yes		l No		Not applic	cable	
	If yes,	what org	ganization or ind	vidual assisted	you? Select all	that apply.		
				nance Authority velopment nt of Finance and ency; which age Agency; which a ural Water Asso Rural Communit fronmental Fina ting or enginee ily member nother drinking r, representative	d Administration of Administration of Assistance Control of Control of Assistance Contro	on orporation - In firm?	RCAC g., county	
23.	Which	ı stateme	nt best represer	its your perspe	ctive on loans?			
		We wil	I only accept gra	nts (or principa		nd will not d	o a project if it	
		•	efer grant funds		oan to supplem	ent grant fui	nding, if necessary	and
		compo	efer grant funds l nent, if necessar please specify: _	y and if we qua	lify.		y loan, with no gra	int
	Please		e how strongly y				atements.	
24.	•	ublic drin s in New I	•	m has the knov	vledge and skills	set needed to	o apply for loans a	ind
		Strongly disagree	_	e 🛭 Neutr	al 🛭 Agre	ee 🛘	Strongly Agree	

25. It is easy for us to identify possible funding sources.

		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
26.	After	a grant or loa	an is	received, it is	eas	y to access ar	nd u	se the mone	у.	
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
27.		ological chal ng for or acc	_		ites	, internet con	nec	tion, comput	er, et	c.) prevent me from
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
28.	•			d documentati se in applying			_		cal, fi	nancial information)
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
29.			_	r the required is a significan	-			_		ental reports for g funds.
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
30.	•	liance issues ccessing func		n audits, certif	icat	ion, or budge	ts is	a significant	chall	enge in applying for
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
31.	The tin		ueno	cy of funding c	ycle	es is a significa	nt o	challenge in a	applyi	ing for and accessing
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree

32. Communication with funding agencies or challenges in transportation to attend a public hearing

are significant challenges in applying for and accessing funds.

		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
PART	II	I: Man	ag	ement /	Alt	ernativ	es	for NM	l Sy	stems
manageme	nt i	in New Mexi	co.	stions about p These proposi better inform	ition	s are not adv	ocat	ted for by th	e auth	nors of this survey.
Ple	ease	e indicate ho	w st	trongly you a	gree	or disagree v	with	the followi	ng sta	tements.
				of connection e sustainable		my water sys	tem	(e.g., more	custo	mers) would make
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
cor	nne			g water syster solidating ope		-				
		Strongly disagree		Disagree		Neutral		Agree		Strongly Agree
pri	mai				-	•				what would be your our biggest concern,
		Lack of trus Loss of com Loss of com Potential fo Sharing fina Potential lo Insufficient	t in one mure reaction to the contraction of the co	nity jobs e increases	ply			or communit	У	
		I have no	conc	erns about co	nso	lidation				

36.	What	would be the biggest benefits of consolidating your drinking water system with others in
	the ar	ea? Please rank all that apply in order of benefit, 1 being the biggest benefit, maximum of
	5.	
		Increased revenue stability
		Decreased managerial burden for community members
		Having additional personnel with professional skills and experience
		Increased operating efficiency
		Potential diversification of drinking water sources
		Potential increased access to financing at lower costs
		Improved planning and risk management
		Other; please specify:
37.		There are no benefits of consolidation d to consolidate your drinking water system with others in the area, which of the ing strategies would you prefer? Select all that apply.
		Sharing management authority with another system or entity
		Assuming all management authority for both systems
		Relinquishing all management authority to another system or entity
		Sharing some administrative tasks (e.g., bookkeeping, regulatory reporting, etc.) but retaining management authority
		Pooling water rights
		Other; please specify:
		I will not consider consolidation

Part IV: Thank you and final thoughts

38. Thank you so much for your time and for participating in this research. Is there anything else related to drinking water in New Mexico that you think is important for us to know? If so, please use the space to write below to provide your thoughts.

Survey Consent form

New Mexico Drinking Water Finance and Management Study

Consent to Participate in Research

Purpose of the research: You are being asked to participate in a research project that is being done by Dr. Benjamin Warner and Tucker Colvin, from the Department of Geography and Environmental Studies at UNM. The purpose of this research is to understand risks to drinking water systems across New Mexico. You are being asked to join because you play a managerial role in your community drinking water system that has been selected to be part of this research.

This consent form contains important information about this project and what to expect if you decide to participate. Please consider the information carefully. Feel free to ask questions before making your decision whether or not to participate. Your participation in this research is voluntary.

Key information for you to consider:

- This project will attempt to determine how the organizational structure of a water system may best enable communities to manage risks to their drinking water.
- For this research you will be asked to partake in an online survey. This survey will be anonymous.
- There are no foreseen risks in partaking in this research. There are also no immediate benefits. The only benefit will be to help further the study of governance of natural resources.
- The survey will take time out of your day and is expected to take around 20 minutes to complete.

What you will do in the project: For this project, you will take a survey using the website Esurvey. There will be a number of specific questions that deal with the organizational structure of your system, the source water, how you protect source water, and what your perceived vulnerabilities are. You can decide to not answer any question and can stop the survey at any time.

Risks: The only risk for your participation in this study is the inconvenience of taking time out of your day to participate.

Benefits: There will be no immediate benefits to you. The overall research will hopefully help decrease risks to drinking water systems in general.

Confidentiality of your information: All survey responses will be anonymous, and we will take steps to ensure your confidentiality and privacy. The surveys will be de-identified from your personal information and stored on a password protected hard drive. Only the research team will have access to the data. Any works published using this research will be anonymous and not contain any identifiable information.

We will take measures to protect the security of all your personal information, but we cannot guarantee confidentiality of all research data. The University of New Mexico Institutional Review Board (IRB) that oversees human research may be permitted to access your records. Your name will not be used in any published reports about this research.

Use of your information for future research: Your information collected for this project will NOT be used or shared for future research, even if we remove the identifiable information like your name or date of birth.

Payment: You will not be paid for participating in this project.

Right to withdraw from the research: Your participation in this research is completely voluntary. You have the right to choose not to participate or to withdraw your participation at any time without penalty. If you decide to withdraw from participation, all data obtained from the survey will be destroyed.

If you have any questions, concerns, or complaints about the research, please contact:

Tucker Colvin, Southwest Environmental Finance Center, tcolvin@unm.edu, 505-333-9667

If you have questions regarding your rights as a research participant, or about what you should do in case of any research-related harm to you, or if you want to obtain information or offer input, please contact the IRB. The IRB is a group of people from UNM and the community who provide independent oversight of safety and ethical issues related to research involving people:

UNM Office of the IRB, (505) 277-2644, irbmaincampus@unm.edu. Website: http://irb.unm.edu/

CONSENT

You are making a decision whether to participate in this research. By proceeding to the questionnaire, you are indicating that you have read and understood this project background and agree to participate in this research study.