



ATTACHMENT I – General Qualifications
**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729**

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	JE Fuller/Hydrology and Geomorphology, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	40 E. Helen Street
c. FIRM (OR BRANCH OFFICE) CITY:	Tucson
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85705

f. YEAR ESTABLISHED:	1998
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Small Business

h. POINT OF CONTACT NAME AND TITLE:	John Wallace, President
i. POINT OF CONTACT TELEPHONE NUMBER:	520-623-3112
j. POINT OF CONTACT E-MAIL ADDRESS:	john@jefuller.com

k. NAME OF FIRM (If block 1a is a branch office):	JE Fuller/Hydrology and Geomorphology, Inc.
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4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME John Wallace	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 17
d. LOCATION <i>(City and State)</i> Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science, Civil Engineering, University of Arizona Bachelor of Science, Business Admin., University of Connecticut		f. PROFESSIONAL TRAINING - REGISTRATIONS Arizona, Engineer/Civil (22922) New Mexico, Engineer/Civil (21490)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Certified Floodplain Manager (CFM), Association of State Floodplain Managers Certificate US-08-03384			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Tierra Santa Land – 383 Acre Site	(2) YEAR COMPLETED 2014	Professional Services Floodplain Studies, Drainage Design	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Master Drainage Report for 383 acre development project in Sunland Park, NM. The project included identification, hydrologic modeling and hydraulic modeling for all major watercourses and sizing of drainage and stormwater detention-retention facilities. The project also included considerable coordination with municipal and state DOT officials to resolve design standard and roadway drainage issues.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Drainage Report For Church Street Widening, Thatcher, AZ	(2) YEAR COMPLETED 2013	Professional Services Roadway Drainage Design	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Currently Church Street in Thatcher, Arizona consists of 28 feet of asphalt with intermittent sidewalks and little drainage infrastructure. The Church Street Widening project will widen the roadway to 56 feet with curb & gutter and sidewalks along the entire length. The total length of the project is approximately 5,350 feet and will allow for one lane in each direction, a continuous left turn lane, and on street parallel parking. JE Fuller prepared the drainage report submittals for the project under contract to Kittelson for the Arizona Department of Transportation. Work included hydrologic analysis (ADOT rational method), assessment of existing and proposed drainage conditions, and evaluation of existing/proposed inlet design.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Allred vs New Mexico Department of Transportation	(2) YEAR COMPLETED 2014	Professional Services Floodplain Studies, Litigation Support	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Expert witness services in connection with flooding on Whitewater Creek in Glenwood, New Mexico. Private property owner had brought suit against the New Mexico Department of Transportation claiming damage to agricultural facilities due to flooding in September 2013. Investigation included field investigation, review of extensive information on area history, evaluation of aerial photography and topography, hydrologic modeling, hydraulic modeling. The work included appearance at a hearing on the matter in Reserve, New Mexico in July 2014.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Old Ina Road Flood Forensic Assessment	(2) YEAR COMPLETED 2014	Professional Services Floodplain Studies, Forensic Analysis	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Old Ina Road Flood Forensic Assessment is an evaluation of the conditions and impacts associated with the September 8, 2014 storm event as they impacted improvements and property along Old Ina Road. Task 1 included assessment of the condition of a large grate inlet (located between 11 and 31 W. Old Ina Road) immediately prior to the September 8, 2014 storm/flood event and evaluation of past maintenance practices for that structure. Evaluation included; aerial photo research, resident interviews, flood history assessment, flood frequency assessment. Follow up work included redesign of problem structure.	<input checked="" type="checkbox"/>	Check if project performed with current firm	
5.	(1) TITLE AND LOCATION <i>(City and State)</i> Sendero Pass Existing Conditions Letter of Map Revision Pima County, Arizona	(2) YEAR COMPLETED 2013	Professional Services Floodplain Studies	Construction (if applicable)



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(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE

Mr. Wallace performed two-dimensional floodplain modeling for an approximately 40 square mile area to determine revised Zone A mapping for an approximately 1.5 square mile area southwest of Tucson, Arizona. The modeling included processing and development of DEM data, soils data, land use data, rainfall data and rainfall-runoff coefficients using the SCS Curve Number method. The project also included evaluation of floodplain impacts associated with development of the 1.5 square mile mapping area. The project resulted in a LOMR submittal to FEMA.

Check if project performed with current firm



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Ruthrauff Basin Management Plan, Tucson, AZ	b. YEAR	
	PROFESSIONAL SERVICES 2014-2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pima County Regional Flood Control District	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$700,000	e. TOTAL COST OF PROJECT \$700,000
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Preparation of FEMA Map Revision: The improvements associated with the new ADOT/UPRR culvert crossings at Flowing Wells Wash will reduce flooding on the wash and the associated AO1 zone to the north (Gardner Lane). Therefore, a Letter of Map Revision (LOMR) from FEMA for the re-delineation of the flood zones will be processed for the downstream reach of Flowing Wells Wash, as well as the Gardner Lane watershed; incorporating the results of the Ruthrauff watershed FLO-2D results as applicable.

Hydrologic Analysis and Floodplain Delineation: Floodplains will be redelineated where the existing mapping is inaccurate. Appropriate hydrologic and hydraulic modeling will be conducted for the study area, with specific modeling methods utilized for each basin. The Ruthrauff and Rillito watersheds will utilize FLO-2D modeling. Modeling will include utilizing existing TSMS and FEMA effective model results, as well as new and/or updated HEC-RAS modeling, for the Flowing Wells watershed – which will be accomplished in Task 3. An Existing Conditions/Hydrologic Analysis and Floodplain Delineation Report will be prepared.

Public Involvement and Alternatives Development: The project will include coordination with the public and stakeholders and development of alternatives to mitigate problem areas identified during the hydrologic analysis and floodplain delineation.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Pascua Yaqui Flood Control Plan, Tucson, AZ	b. YEAR	
	PROFESSIONAL SERVICES 2014-2015	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pascua Yaqui Tribe, Tucson, AZ	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$400,000	e. TOTAL COST OF PROJECT \$400,000
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This project includes hydrologic and hydraulic evaluation of runoff sources impacting the Pascua Yaqui reservation southwest of Tucson, AZ. The hydrologic and hydraulic analysis was performed using two-dimensional floodplain modeling software (FLO-2D). The project includes development of alternatives to mitigate identified flood hazards, coordination with the tribal council on selection of the recommended alternatives and preparation of construction plans for the improvements. The project also included preparation of a Letter of Map Revision (LOMR) for the existing reservation which is currently mapped as Special Flood Hazard Area (SFHA).



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a. TITLE AND LOCATION <i>(City and State)</i> North Ranch RV Erosion Mitigation Project, Congress, AZ	b. YEAR	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER North Ranch RV Park HOA	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$18,800	e. TOTAL COST OF PROJECT \$18,800
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h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

This project included evaluation of erosion at the outlet of two culverts along a constructed channel in a rural RV park in central Arizona. The project included field investigation, hydrologic analysis, hydraulic analysis, and design of erosion mitigation measures for the two locations. The project also ultimately included construction inspection and certification for the constructed improvements.

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

a. TITLE AND LOCATION <i>(City and State)</i> Tucson Diversion Channel, Tucson, AZ	b. YEAR	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER North Ranch RV Park HOA	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$15,000	e. TOTAL COST OF PROJECT \$15,000
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i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The U.S. Army Corps of Engineers constructed the Tucson Diversion Channel - Phase 3 around 1964, which included a levee between Alvernon and Craycroft along the north side of Davis-Monthan Air Force Base to collect and channel water away from the City of Tucson and into the Tucson Diversion Channel and associated Ajo Detention Basin. In the subsequent 50 years, the watershed contributing flow to the levee and the levee have been modified and changed. The goal of this hydrologic and hydraulic analysis and study was to document changes that have occurred to the Tucson Diversion Channel between Alvernon and Craycroft, to verify that the levee does or does not meet current FEMA and USACE levee standards, make recommendations as to maintenance and repair that will bring the levee back into compliance with FEMA and USACE levee standards, and submit a letter of map revision to document the levee's current flood protection status. Hydrologic analysis was performed using the City of Tucson, Tucson Stormwater Management Study model (HEC-1). Hydraulic modeling was performed using the USACE HEC-RAS program.



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7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	75%
b. Percentage of Total Work Attributable to Non-Government Work:	25%

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: John M. Wallace

Date: 12-5-2014

Name: John M. Wallace

Title: President