Offer and Acceptance

SOLICITATION NO.: ADSPO16-00005912 Request for Qualifications: 2016 Annual Professional Services List	PAGE 1	**State of Arizona** **State Procurement Office** 100 N. 15th Ave. Suite 201 Phoenix, AZ 85007
Offeror: Wilson Engineers	OF 1	

OFFER

TO THE STATE OF ARIZONA:

The Undersigned hereby offers and agrees to furnish the material, service or construction in compliance with all terms, conditions, specifications and amendments in the Solicitation and any written exceptions in the offer. Signature also certifies Small Business status.

Wilson Engineers
Company Name

9633 S. 48th Street, Suite 290
Address

Phoenix, AZ 85044
City State Zip

steve.todd@wilson-engineers.com
Contact Email Address

Signature of Person Authorized to Sign Offer

Steve Todd
Printed Name

Principal
Title

Phone: (480) 893-8860

Fax: (480) 893-8968

By signature in the Offer section above, the Offeror certifies:

1. The submission of the Offer did not involve collusion or other anticompetitive practices.
2. The Offeror shall not discriminate against any employee or applicant for employment in violation of Federal Executive Order 11246, State Executive Order 2009-9 or A.R.S. §§ 41-1461 through 1465.
3. The Offeror has not given, offered to give, nor intends to give at any time hereafter any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant in connection with the submitted offer. Failure to provide a valid signature affirming the stipulations required by this clause shall result in rejection of the offer. Signing the offer with a false statement shall void the offer, any resulting contract and may be subject to legal remedies provided by law.
4. The Offeror certifies that the above referenced organization ___ **IS/** ___ **IS NOT** a small business with less than 100 employees or has gross revenues of $4 million or less.

ACCEPTANCE OF OFFER

The Offer is hereby accepted.

The Contractor is now bound to sell the materials or services listed by the attached contract and based upon the solicitation, including all terms, conditions, specifications, amendments, etc., and the Contractor's Offer as accepted by the State.

This Contract shall henceforth be referred to as Contract No. ADSPO16-00005912.

The effective date of the Contract is March 1, 2016.

The Contractor is cautioned not to commence any billable work or to provide any material or service under this contract until Contractor receives purchase order, contact release document or written notice to proceed.

State of Arizona
Awarded this 29 **day of** February 20 16

Procurement Officer

DEFINITIONS

Architect Services, Engineer Services, Land Surveying Services, Assayer Services, Geologist Services and Landscape Architect Services: Those professional services within the scope of the practice of those services as provided in ARS § 32-101.

Branch Office: A geographically distinct place of business or subsidiary office of a firm that has a key role on the team.

Discipline: Primary technical capabilities of key personnel, as evidenced by academic degree, professional registration, certification, and/or extensive experience.

Firm: Defined in ARS § 32-101(B.19.).

Key Personnel: Individuals who will have major contract responsibilities and/or provide unusual or unique expertise.

SPECIFIC INSTRUCTIONS:

1 . Complete this form for each branch office seeking work under this RFQ.

a . – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.

f. **Year Established**. Enter the year the firm (or branch office, if appropriate) was established under the current name.

g. **Ownership**.

(g1). *Type*. Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).

(g2). *Small Business Status*. A firm is a small business if the firm has less than 100 employees **or** has gross revenues of $4 million or less.

h.-j. **Point of Contact**. Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.

k. **Name of Firm**. Enter the name of the firm.

2. **Employees by Discipline**.

a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select Other. *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*

b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a “P” or an “S” in column b after the Description Title is given.

c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.

3. **Profile of Firm's Experience and Annual Average Revenue for Last Year**.

a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed

on Page 3 of 4 Instructions over the last year.

b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.

c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.

4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.

a. Self-explanatory.
b. Self-explanatory
c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch/office (block c2).
d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.

5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.

a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
d. Provide the original budget or not to exceed dollar amount for the project.
e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage compete and whether this project will be on budget, over or under budget.
f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.

6. **Additional Information**. Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.

7. **Annual Average Professional Services Revenues of Firm for Last 3 Years**. Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work

attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.

8. **Authorized Representative**. An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

List of Disciplines (Function Codes) for Question 2

Aeronautical Engineer
Agricultural Engineer
Archeologist
Architect
Architectural Engineering
Biologist
CADD Technician
Chemical Engineer
Civil Engineer
Construction Manager
Construction Inspector
Control Systems Engineer
Cost Engineer/Estimator
Ecologist
Electrical Engineer
Environmental Engineer
Environmental Scientist
Fire Protection Engineer
Geodetic Surveyor
Geographic Information System Specialist
Geological Engineer
Geologist
Hydrographic Surveyor
Hydraulic Engineer
Hydrologist
Industrial Engineer
Landscape Architect
Mechanical Engineer
Metallurgical Engineer
Mining Engineer
Nuclear Engineer
Petroleum Engineer
Photogrammetrist
Project Manager
Sanitary Engineer
Soils Engineer
Structural Engineer
Technician/Analyst
Transportation Engineer
Water Resources Engineer

List of Experience Categories (Profile Codes for Question 3)

Acoustics, Noise Abatement
Aerial Photography; Airborne Data and Imagery Collection and Analysis
Activity Centers
Air Pollution Control
Airports; Navaids; Airport Lighting; Aircraft Fueling
Airports; Terminals and Hangars; Freight Handling
Agricultural Development; Grain Storage; Farm Mechanization
Animal Facilities
Anti-Terrorism/Force Protection
Area Master Planning
Auditoriums and Theaters
Automation; Controls; Instrumentation
Barracks; Dormitories
Bridge Design: Bridges
Cartography
Cemeteries *(Planning and Relocation)*
Chemical Processing and Storage
Child Care/Development Facilities
Codes; Standards; Ordinances
Cold Storage; Refrigeration and Fast Freeze
Commercial Building *(Low Rise)*; Shopping Centers
Community Facilities
Communications Systems; TV; Microwave
Computer Facilities
Conservation and Resource Management
Construction Management
Construction Surveying
Corrosion Control; Cathodic Protection Electrolysis
Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting
Cryogenic Facilities
Construction Materials Testing
Dams *(Concrete; Arch)*
Dams *(Earth; Rock)*; Dikes; Levees
Desalinization *(Process and Facilities)*
Design-Build - Preparation of Requests for Proposals
Digital Elevation and Terrain Model Development
Digital Orthophotography
Dining Halls; Clubs; Restaurants
Dredging Studies and Design
Design & Planning Structured Parking Facilities
Detention Security Systems
Disability / Special Needs
Ecological and Archeological Investigations
Educational Facilities; Classrooms
Electrical Studies and Design
Electronics
Elevators; Escalators; People-Movers
Energy / Water Auditing Savings
Energy Conservation; New Energy Sources
Environmental Impact Studies, Assessments or Statements
Fallout Shelters; Blast-Resistant Design
Fire Protection
Fisheries; Fish Ladders
Forensic Engineering
Garages; Vehicles Maintenance Facilities; Parking
Gas Systems *(Propane; Natural, Etc.)*
Geodetic Surveying: Ground and Airborne

Heating; Ventilating; Air Conditioning
Highways; Streets; Airfield Paving; Parking Lots
Historical Preservation
Hospital and Medical Facilities
Hotels; Motels
Housing (Residential, Multi-Family; Apartments; Condominiums)
Hotels; Motels
Hydraulics and Pneumatics
Hydrographic Surveying
Industrial Buildings; Manufacturing Plants
Industrial Processes; Quality Control
Industrial Waste Treatment
Intelligent Transportation Systems
Infrastructure
Irrigation; Drainage
Judicial and Courtroom Facilities
Laboratories; Medical Research Facilities
Land Surveying
Landscape Architecture
Libraries; Museums; Galleries
Lighting *(Interior; Display; Theater, Etc.)*
Lighting *(Exteriors; Streets; Memorials; Athletic Fields, Etc.)*
Labs - General
Labs – Research – Dry
Labs – Research – Wet
LEED Accredited A/E
LEED Independent 3rd Party Building Commissioning
Mapping Location/Addressing Systems
Materials Handling Systems; Conveyors; Sorters
Metallurgy
Materials Testing
Measurement / Verification / Conservation Water Consumption Savings
Mining and Mineralogy
Medical Related
Modular Systems Design; Fabricated Structures or Components
Mold Investigation
Museums
Nuclear Facilities; Nuclear Shielding
Office Buildings; Industrial Parks
Outdoor Recreation
Petroleum and Fuel *(Storage and Distribution)*
Photogrammetry
Pipelines *(Cross-Country - Liquid and Gas)*
Phase I Environmental
Prisons & Correctional Facilities
Plumbing and Piping Design
Prisons and Correctional Facilities
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities
Radar; Sonar; Radio and Radar Telescopes
Radio Frequency Systems and Shielding's
Railroad; Rapid Transit
Recreation Facilities *(Parks, Marinas, Etc.)*
Refrigeration Plants/Systems
Rehabilitation *(Buildings; Structures; Facilities)*
Research Facilities
Resources Recovery; Recycling
Roof Infrared Imaging to Identify Water Leaks
Roofing
Safety Engineering; Accident Studies; OSHA Studies
Security Systems; Intruder and Smoke Detection
Seismic Designs and Studies
Sewage Collection, Treatment and Disposal
Soils and Geologic Studies; Foundations
Solar Energy Utilization
Solid Wastes; Incineration; Landfill
Special Environments; Clean Rooms, Etc.
Structural Design; Special Structures
Surveying; Platting; Mapping; Flood Plain Studies
Sustainable Design
Swimming Pools
Storm Water Handling and Facilities
Specifications Writing
Toxicology
Testing and Inspection Services
Traffic and Transportation Engineering
Topographic Surveying and Mapping
Towers *(Self-Supporting and Guyed Systems)*
Tunnels and Subways
Traffic Studies
Transportation
Urban renewals; Community Development
Utilities *(Gas and Steam)*
Value Analysis; Life-Cycle Costing
Warehouse and Depots
Water Resources; Hydrology; Ground Water
Water Supply; Treatment and Distribution
Wind Tunnels; Research/Testing Facilities Design
Waste Water Treatment Facility
Water Well Rehabilitation; Water Well Work
Zoning; Land Use Studies

	ATTACHMENT I – General Qualifications **ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO: ADSPO16-00005912**	**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:	Wilson Engineers
b. FIRM (OR BRANCH OFFICE) STREET:	9633 S. 48th Street, Suite 290
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85044

f. YEAR ESTABLISHED:	2006

(g1). OWNERSHIP - TYPE:	LLC
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Yes, less than 100 employees

h. POINT OF CONTACT NAME AND TITLE:	Steve M. Todd, Principal
i. POINT OF CONTACT TELEPHONE NUMBER:	(480) 893-8860
j. POINT OF CONTACT E-MAIL ADDRESS:	Steve.todd@wilson-engineers.com

k. NAME OF FIRM *(If block 1a is a branch office)*:	Wilson Engineers

2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Civil Engineer	P	22	22
Construction Inspector	P	6	6
Electrical Engineer	P	8	8
Sanitary	P	2	2
Other	P	10	10
Total		48	48

3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number *(see below)*
8	Construction Management	6
2	Electrical Studies	3
6	Sewage Collection, Treatment and Disposal	7
8	Water Supply; Treatment and Distribution	6
8	Wastewater Treatment Facility	7
5	Water Well Rehabilitation; Water Well Work	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than $100,000
2. $100,000 to less than $250,000
3. $250,000 to less than $500,000
4. $500,000 to less than $1 million
5. $1 million to less than $2 million
6. $2 million to less than $5 million
7. $5 million to less than $10 million
8. $10 million to less than $25 million
9. $25 million to less than $50 million
10. $50 million or greater

4. Resumes of Key Personnel Proposed for this Contract (*Complete one Section 4 for each key person.)*

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Steve Todd	Principal/Project Manager	1. TOTAL 24	2. WITH CURRENT FIRM 24

d. LOCATION *(City and State) 9633 S. 48th Street, Suite 290, Phoenix, AZ 85044*

e. EDUCATION *(DEGREE AND SPECIALIZATION)*	f. PROFESSIONAL TRAINING - REGISTRATIONS
B.S. in Chemical Engineering, *Arizona State University, 1990*	*PE #28375*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

- *Arizona Grade 4 Water Treatment Plant Operator*
- *Arizona Grade 4 Wastewater Treatment Plant Operator*
- *Arizona Grade 4 Water Distribution Systems Operator*
- *Arizona Grade 4 Wastewater Collection Systems Operator*

H. RELEVANT PROJECTS

1.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
AWRF Expansion to 22MGD – Chandler, AZ	Professional Services 2013	Construction (if applicable) 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Principal and QA/QC reviewer for the design of a Wastewater Treatment Plant expansion from 7 MGD to 22 MGD. Project included process design, preparation of construction plans, permitting, and construction management. This was a $105.5M, 40 month design project.

The City of Chandler selected Wilson Engineers to provide permitting, design, and construction management services to expand the capacity of the Airport Water Reclamation Facility from 15 MGD to 22 MGD. This project provided additional wastewater treatment capabilities to accommodate the City's increasing industrial flow demands. The plant is an extended aeration design with nutrient removal, and the main treatment processes include fine, activated sludge basins, secondary clarifiers, flocculation, filtration, ultraviolet (UV) disinfection, odor control, and mechanical dewatering.

2.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
OWRF/AWRF Lift Station – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Project Principal for the construction of the OWRF/AWRF Lift Station. The project lasted from February 2012 to May 2013 and cost $17,170,174.

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also designed to accommodate a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump.

3.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Tumbleweed ASR Well No. 8 – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

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

X Check if project performed with current firm

Project Principal for the design and construction of the City of Chandler's new ASR well. The project lasted from March 2012 to March 2013 and cost $741,246.

This project included the design and construction administration services for a new aquifer storage and recovery (ASR) well at the City's existing Tumbleweed Park Recharge Facility. The recharge well included a deep well vertical turbine pump and motor equipped with a compressed nitrogen controlled recharge flow control valve. The design also included discharge piping, control valves, a magnetic flow meter, and other appurtenances necessary to connect to the existing recharge well system. The project included the design of the electrical, instrumentation, and controls to connect to the City's existing recharge facility system at the Tumbleweed Park.

4.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Ocotillo WRF Process Improvements – Chandler, AZ	Professional Services 2015	Construction (if applicable)

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

X Check if project performed with current firm

Project Prinicipal for the replacement and rehabilitation of the equipment used at this location. The project is planned for January 2015 to October 2015, and the cost is still to be determined.

The City of Chandler Ocotillo WRF has been in operation since the mid 1980's. Over the past 30 years the City has experienced changing influent loading conditions and much of the process equipment is nearing the end of its useful life. The purpose of this project is to replace and rehabilitate major process equipment and implement modifications to the biological process to enhance the reliability of the treatment process. Major items included in the project are: a new influent pump station, rehabilitation to the influent screens, repairs to the headworks odor control system, new mixers in the aeration basins, blower rehabilitations, and new instrumentation in the aeration basins, a new secondary clarifier, new plant control system, and several upgrades to the existing chemical feed facilities.

5.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
South Chandler Sewer Line Expansion – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

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

X Check if project performed with current firm

Project Principal for the design of a relief sewer line between the Ocotillo Campus to AWRF/OWRF. The project lasted from July 2012 to February 2013 and cost $3,506,645.

This project included the design of approximately 2,300 linear feet of 42-inch gravity relief sewer line to convey wastewater flows from Intel's Ocotillo Campus to the new AWRF/OWRF Lift Station located at the north end of the City's Ocotillo Water Reclaimed Facility (OWRF). As part of the project, one new diversion structure and two new junction structures were strategically placed to provide the City with the ability to route wastewater flows to maximize the use of the existing sewers in the area. Another diversion structure was provided by Intel within their on-site sewage collection system to divert flows to the new 42-inch gravity relief sewer. By diverting their flows through the new relief sewer, it provided additional sewer capacity within the existing 27-inch gravity sewer located in Dobson Road.

4. Resumes of Key Personnel Proposed for this Contract (*Complete one Section 4 for each key person.)*

b. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Uday Gandhe	Principal / Senior Project Manager	1. TOTAL 24	2. WITH CURRENT FIRM 18

d. LOCATION *(City and State) 9633 S. 48th Street, Suite 290, Phoenix, AZ 85044*

e. EDUCATION *(DEGREE AND SPECIALIZATION)*	f. PROFESSIONAL TRAINING - REGISTRATIONS
• *B.S. in Civil Engineering, Osmania University, India, 1985* • *M.S. in Geotechnical Engineering, Osmania University, India, 1987* • *M.S. in Environmental Engineering, New Jersey Institute of Technology, 1991* • *Master of Business Administration, Arizona State University, 2001*	*Professional Engineer in Arizona (PE #30184) and Hawaii*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

H. RELEVANT PROJECTS

1.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
AWRF Expansion to 22MGD – Chandler, AZ	Professional Services 2013	Construction (if applicable) 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Senior Project Manager for the design of a Wastewater Treatment Plant expansion from 7 MGD to 22 MGD. Project included process design, preparation of construction plans, permitting, and construction management. This was a $105.5M, 40 month design project.

The City of Chandler selected Wilson Engineers to provide permitting, design, and construction management services to expand the capacity of the Airport Water Reclamation Facility from 15 MGD to 22 MGD. This project provided additional wastewater treatment capabilities to accommodate the City's increasing industrial flow demands. The plant is an extended aeration design with nutrient removal, and the main treatment processes include fine, activated sludge basins, secondary clarifiers, flocculation, filtration, ultraviolet (UV) disinfection, odor control, and mechanical dewatering.

2.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
OWRF/AWRF Lift Station – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Senior Project Manager for the construction of the OWRF/AWRF Lift Station. The project lasted from February 2012 to May 2013 and cost $17,170,174.

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also designed to accommodate a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump.

3.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	Professional Services	Construction (if applicable)
Tumbleweed ASR Well No. 8 – Chandler, AZ	2012-2013	2013

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

X Check if project performed with current firm

Senior Project Manager for the design and construction of the City of Chandler's new ASR well. The project lasted from March 2012 to March 2013 and cost $741,246.

This project included the design and construction administration services for a new aquifer storage and recovery (ASR) well at the City's existing Tumbleweed Park Recharge Facility. The recharge well included a deep well vertical turbine pump and motor equipped with a compressed nitrogen controlled recharge flow control valve. The design also included discharge piping, control valves, a magnetic flow meter, and other appurtenances necessary to connect to the existing recharge well system. The project included the design of the electrical, instrumentation, and controls to connect to the City's existing recharge facility system at the Tumbleweed Park.

4.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	Professional Services	Construction (if applicable)
Ocotillo WRF Process Improvements – Chandler, AZ	2015	

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

X Check if project performed with current firm

Senior Project Manager for the replacement and rehabilitation of the equipment used at this location. The project is planned for January 2015 to October 2015, and the cost is still to be determined.

The City of Chandler Ocotillo WRF has been in operation since the mid 1980's. Over the past 30 years the City has experienced changing influent loading conditions and much of the process equipment is nearing the end of its useful life. The purpose of this project is to replace and rehabilitate major process equipment and implement modifications to the biological process to enhance the reliability of the treatment process. Major items included in the project are: a new influent pump station, rehabilitation to the influent screens, repairs to the headworks odor control system, new mixers in the aeration basins, blower rehabilitations, and new instrumentation in the aeration basins, a new secondary clarifier, new plant control system, and several upgrades to the existing chemical feed facilities.

5.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
	Professional Services	Construction (if applicable)
South Chandler Sewer Line Expansion – Chandler, AZ	2012-2013	2013

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

X Check if project performed with current firm

Senior Project Manager for the design of a relief sewer line between the Ocotillo Campus to AWRF/OWRF. The project lasted from July 2012 to February 2013 and cost $3,506,645.

This project included the design of approximately 2,300 linear feet of 42-inch gravity relief sewer line to convey wastewater flows from Intel's Ocotillo Campus to the new AWRF/OWRF Lift Station located at the north end of the City's Ocotillo Water Reclaimed Facility (OWRF). As part of the project, one new diversion structure and two new junction structures were strategically placed to provide the City with the ability to route wastewater flows to maximize the use of the existing sewers in the area. Another diversion structure was provided by Intel within their on-site sewage collection system to divert flows to the new 42-inch gravity relief sewer. By diverting their flows through the new relief sewer, it provided additional sewer capacity within the existing 27-inch gravity sewer located in Dobson Road.

4. Resumes of Key Personnel Proposed for this Contract (*Complete one Section 4 for each key person.)*

c. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Mike Johnson	Project Manager	1. TOTAL 19	2. WITH CURRENT FIRM 19

d. LOCATION *(City and State) 9633 S. 48th Street, Suite 290, Phoenix, AZ 85044*

e. EDUCATION *(DEGREE AND SPECIALIZATION)*	f. PROFESSIONAL TRAINING - REGISTRATIONS
• *M.S.E. Civil Engineering, Arizona State University, 1995* • *B.S.E. Civil Engineering, Arizona State University, 1993*	*Professional Registration in Arizona (PE #32278)*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

H. RELEVANT PROJECTS

1.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Vistancia Potable Wells 4 and 9 – Peoria, AZ	Professional Services 2011	Construction (if applicable) 2013

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

[X] Check if project performed with current firm

Project Manager for the design of two new potable water wells. Project included design, preparation of construction plans, permitting, and construction management. This was a $1.95M, 28 month project.

Wilson Engineers was selected to provide design, permitting, and construction services for the City of Peoria/Vistancia Potable Wells 4 and 9 project. The project entails equipping two potable wells, in addition to the existing 8 potable well system previously completed by Wilson Engineers, with vertical turbine well pumps, chlorination system, back-up generator system, pump-to-waste capabilities, perimeter masonry site wall, security system, and SCADA communication system for these remote facilities. Each well has a capacity of 900 gpm and 650 gpm, respectfully, and pump directly to the well transmission system where it is stored and subsequently pumped into the distribution system.

2.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
7A-GS2 Concrete Reservoir – Phoenix, AZ	Professional Services 2012	Construction (if applicable) 2014

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

[X] Check if project performed with current firm

Project Manager for the design of a new 3 MG concrete potable water reservoir. Project included design, preparation of construction plans, permitting, and construction management. This was a $7.2M, 36 month project.

Wilson Engineers was selected to provide design and construction services for the City of Phoenix's 7A-GS2 3 MG Concrete Reservoir Project. The first phase includes one 3 MG partially buried concrete reservoir system filled from the City's Water Distribution System Zone 6A and operating on the City's Zone 5E hydraulic grade. Along with the reservoir, the design includes the initial gas based chlorine facilities and chlortainer storage vessels, reservoir isolation valve vault and PRV station to transfer flow from Zone 6A to 5E, a reservoir recirculation pump station, and perimeter wall and landscaping improvements supported by City Art Funds. Lastly, with the implementation of the Stage II DBP Rule forthcoming, the reservoir was designed to easily accommodate the installation of five future surface aerators to reduce THMs (the design includes 'knock-outs' for future access hatches, guide rails, spare electrical capacity, and increased ventilation for the reservoir).

3.

(1) TITLE AND LOCATION *(City and State)*

3B-B2 Booster Pump Station – Phoenix, AZ

(2) YEAR COMPLETED

Professional Services	Construction (if applicable)
2012	2014

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

X Check if project performed with current firm

Project Manager for the design of a new 12 MGD potable water booster pump station. Project included design, preparation of construction plans, permitting, and construction management. This was a $8.5M, 26 month project.

Wilson Engineers was selected by the City of Phoenix to provide design and construction related services for replacing the 3B-B2 12 MGD Booster Pump Station that serves Pressure Zone 3B. The new booster pump station is being designated as 3B-B4. The design includes four new vertical turbine can pumps, a pressure sustaining return line, a 5,000 gallon surge tank, and a new electrical building housing 4,160V equipment. As part of this project a new 4,160V service entrance is being coordinated with SRP. The process control strategy for the facility was coordinated with the City's Operations Staff to ensure that the local control and SCADA control met the City's desires.

4.

(1) TITLE AND LOCATION *(City and State)*

Willcox Wastewater Treatment Plant 0.6 MGD Reconstruction - Willcox, AZ

(2) YEAR COMPLETED

Professional Services	Construction (if applicable)
2013	

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

X Check if project performed with current firm

Project Manager responsible for the design of the City's Wastewater Treatment Plant 0.6 MGD Reconstruction.

The WWTP includes submersible influent pumps, solids screening, oxidation ditches, clarifiers, filters, sodium hypochlorite disinfection, solids dewatering with screw press, solids storage tank, and a new non-potable water system. Specific tasks included coordinating the Aquifer Protection Permit (APP) Application process with ADEQ, preparation of the detailed design report and construction documents.

5.

(1) TITLE AND LOCATION *(City and State)*

OWRF/AWRF Lift Station – Chandler, AZ

(2) YEAR COMPLETED

Professional Services	Construction (if applicable)
2011	2013

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

X Check if project performed with current firm

Project Engineer for the design of a new 20 MGD sewage lift station. Project included design, preparation of construction plans, permitting, and construction management. This was a $17.1M, 30 month project.

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also Master planned for a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump. The wet wells are able to be operated independently or as one. The Lift Station design also includes a bridge crane to service the pumps, odor control units that consist of spray nozzles that release hydroxyl ions to eliminate odors and reduce pH corrosion, an electrical building and a backup generator.

4. Resumes of Key Personnel Proposed for this Contract (*Complete one Section 4 for each key person.)*

d. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Mike Churchill	Sr. Electrical Engineer / Project Manager	1. TOTAL 21	2. WITH CURRENT FIRM 10

d. LOCATION *(City and State) 9633 S. 48th Street, Suite 290, Phoenix, AZ 85044*

e. EDUCATION *(DEGREE AND SPECIALIZATION)*	f. PROFESSIONAL TRAINING - REGISTRATIONS
• *Bachelor of Science in Electrical Engineering Technology, I.C.S., Canada, 1988* • *Granton Institute of Technology, Toronto, Canada Electrical Power Distribution 1986*	*Professional Engineer in Arizona (PE #41023)*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

H. RELEVANT PROJECTS

1.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
AWRF Expansion to 22MGD – Chandler, AZ	Professional Services 2013	Construction (if applicable) 2014

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

[X] Check if project performed with current firm

Electrical Manager for the design of a Wastewater Treatment Plant expansion from 7 MGD to 22 MGD. Project included process design, preparation of construction plans, permitting, and construction management. This was a $105.5M, 40 month design project.

The City of Chandler selected Wilson Engineers to provide permitting, design, and construction management services to expand the capacity of the Airport Water Reclamation Facility from 15 MGD to 22 MGD. This project provided additional wastewater treatment capabilities to accommodate the City's increasing industrial flow demands. The plant is an extended aeration design with nutrient removal, and the main treatment processes include fine, activated sludge basins, secondary clarifiers, flocculation, filtration, ultraviolet (UV) disinfection, odor control, and mechanical dewatering.

2.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
OWRF/AWRF Lift Station – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

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

[X] Check if project performed with current firm

Electrical Manager for the construction of the OWRF/AWRF Lift Station. The project lasted from February 2012 to May 2013 and cost $17,170,174.

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also designed to accommodate a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump.

3.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Tumbleweed ASR Well No. 8 – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

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

X Check if project performed with current firm

Electrical Manager for the design and construction of the City of Chandler's new ASR well. The project lasted from March 2012 to March 2013 and cost $741,246.

This project included the design and construction administration services for a new aquifer storage and recovery (ASR) well at the City's existing Tumbleweed Park Recharge Facility. The recharge well included a deep well vertical turbine pump and motor equipped with a compressed nitrogen controlled recharge flow control valve. The design also included discharge piping, control valves, a magnetic flow meter, and other appurtenances necessary to connect to the existing recharge well system. The project included the design of the electrical, instrumentation, and controls to connect to the City's existing recharge facility system at the Tumbleweed Park.

4.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Ocotillo WRF Process Improvements – Chandler, AZ	Professional Services 2015	Construction (if applicable)

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

X Check if project performed with current firm

Electrical Manager for the replacement and rehabilitation of the equipment used at this location. The project is planned for January 2015 to October 2015, and the cost is still to be determined.

The City of Chandler Ocotillo WRF has been in operation since the mid 1980's. Over the past 30 years the City has experienced changing influent loading conditions and much of the process equipment is nearing the end of its useful life. The purpose of this project is to replace and rehabilitate major process equipment and implement modifications to the biological process to enhance the reliability of the treatment process. Major items included in the project are: a new influent pump station, rehabilitation to the influent screens, repairs to the headworks odor control system, new mixers in the aeration basins, blower rehabilitations, and new instrumentation in the aeration basins, a new secondary clarifier, new plant control system, and several upgrades to the existing chemical feed facilities.

5.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
South Chandler Sewer Line Expansion – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

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

X Check if project performed with current firm

Electrical Manager for the design of a relief sewer line between the Ocotillo Campus to AWRF/OWRF. The project lasted from July 2012 to February 2013 and cost $3,506,645.

This project included the design of approximately 2,300 linear feet of 42-inch gravity relief sewer line to convey wastewater flows from Intel's Ocotillo Campus to the new AWRF/OWRF Lift Station located at the north end of the City's Ocotillo Water Reclaimed Facility (OWRF). As part of the project, one new diversion structure and two new junction structures were strategically placed to provide the City with the ability to route wastewater flows to maximize the use of the existing sewers in the area. Another diversion structure was provided by Intel within their on-site sewage collection system to divert flows to the new 42-inch gravity relief sewer. By diverting their flows through the new relief sewer, it provided additional sewer capacity within the existing 27-inch gravity sewer located in Dobson Road.

4. Resumes of Key Personnel Proposed for this Contract *(Complete one Section 4 for each key person.)*

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
Ed McCurdy	Construction Manager	1. TOTAL 22	2. WITH CURRENT FIRM 11

d. LOCATION *(City and State) 9633 S. 48th Street, Suite 290, Phoenix, AZ 85044*

e. EDUCATION *(DEGREE AND SPECIALIZATION)*	f. PROFESSIONAL TRAINING - REGISTRATIONS
• *B.S. in Civil Engineering, Oregon State University, 1969*	*Professional Engineer in Colorado and New Mexico*

g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

H. RELEVANT PROJECTS

1.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
AWRF Expansion to 22MGD – Chandler, AZ	Professional Services 2013	Construction (if applicable) 2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Construction Manager for the design of a Wastewater Treatment Plant expansion from 7 MGD to 22 MGD. Project included process design, preparation of construction plans, permitting, and construction management. This was a $105.5M, 40 month design project.

The City of Chandler selected Wilson Engineers to provide permitting, design, and construction management services to expand the capacity of the Airport Water Reclamation Facility from 15 MGD to 22 MGD. This project provided additional wastewater treatment capabilities to accommodate the City's increasing industrial flow demands. The plant is an extended aeration design with nutrient removal, and the main treatment processes include fine, activated sludge basins, secondary clarifiers, flocculation, filtration, ultraviolet (UV) disinfection, odor control, and mechanical dewatering.

2.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
OWRF/AWRF Lift Station – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Construction Manager for the construction of the OWRF/AWRF Lift Station. The project lasted from February 2012 to May 2013 and cost $17,170,174.

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also designed to accommodate a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump.

3.

(1) TITLE AND LOCATION *(City and State)*	(2) YEAR COMPLETED	
Tumbleweed ASR Well No. 8 – Chandler, AZ	Professional Services 2012-2013	Construction (if applicable) 2013

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE — [X] Check if project performed with current firm

Construction Manager for the design and construction of the City of Chandler's new ASR well. The project lasted from March 2012 to March 2013 and cost $741,246.

This project included the design and construction administration services for a new aquifer storage and recovery (ASR) well at the City's existing Tumbleweed Park Recharge Facility. The recharge well included a deep well vertical turbine pump and motor equipped with a compressed nitrogen controlled recharge flow control valve. The design also included discharge piping, control valves, a magnetic flow meter, and other appurtenances necessary to connect to the existing recharge well system. The project included the design of the electrical, instrumentation, and controls to connect to the City's existing recharge facility system at the Tumbleweed Park.

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 *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Chandler Airport Water Reclamation Facility, Chandler AZ	2013	2014

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	f. TOTAL COST OF PROJECT
City of Chandler	$105.5 Million	$105.5 Million

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City of Chandler selected Wilson Engineers to provide permitting, design, and construction management services to expand the capacity of the Airport Water Reclamation Facility from 15 MGD to 22 MGD. This project provided additional wastewater treatment capabilities to accommodate the City's increasing industrial flow demands. The plant is an extended aeration design with nutrient removal, and the main treatment processes include fine, activated sludge basins, secondary clarifiers, flocculation, filtration, ultraviolet (UV) disinfection, odor control, and mechanical dewatering.

Dewatering facilities included a sludge holding tank and belt presses. The sludge thickening process was also expanded to reduce the loading on the dewatering facilities. A three-stage chemical scrubber was provided for the headworks building and the sludge facilities.

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 *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Peoria/Vistancia CFD Potable Wells 4 and 9, Peoria, AZ	2011	2013

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	g. TOTAL COST OF PROJECT
City of Peoria	$1.95 Million	$1.95 Million

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Wilson Engineers was selected to provide design, permitting, and construction services for the City of Peoria/Vistancia Potable Wells 4 and 9 project. The project entails equipping two potable wells, in addition to the existing 8 potable well system previously completed by Wilson Engineers, with vertical turbine well pumps, chlorination system, back-up generator system, pump-to-waste capabilities, perimeter masonry site wall, security system, and SCADA communication system for these remote facilities. Each well has a capacity of 900 gpm and 650 gpm, respectfully, and pump directly to the well transmission system where it is stored and subsequently pumped into the distribution system.

4.

(1) TITLE AND LOCATION *(City and State)*

Ocotillo WRF Process Improvements – Chandler, AZ

(2) YEAR COMPLETED

Professional Services	Construction (if applicable)
2015	

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

X Check if project performed with current firm

Construction Manager for the replacement and rehabilitation of the equipment used at this location. The project is planned for January 2015 to October 2015, and the cost is still to be determined.

The City of Chandler Ocotillo WRF has been in operation since the mid 1980's. Over the past 30 years the City has experienced changing influent loading conditions and much of the process equipment is nearing the end of its useful life. The purpose of this project is to replace and rehabilitate major process equipment and implement modifications to the biological process to enhance the reliability of the treatment process. Major items included in the project are: a new influent pump station, rehabilitation to the influent screens, repairs to the headworks odor control system, new mixers in the aeration basins, blower rehabilitations, and new instrumentation in the aeration basins, a new secondary clarifier, new plant control system, and several upgrades to the existing chemical feed facilities.

5.

(1) TITLE AND LOCATION *(City and State)*

South Chandler Sewer Line Expansion – Chandler, AZ

(2) YEAR COMPLETED

Professional Services	Construction (if applicable)
2012-2013	2013

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

X Check if project performed with current firm

Construction Manager for the design of a relief sewer line between the Ocotillo Campus to AWRF/OWRF. The project lasted from July 2012 to February 2013 and cost $3,506,645.

This project included the design of approximately 2,300 linear feet of 42-inch gravity relief sewer line to convey wastewater flows from Intel's Ocotillo Campus to the new AWRF/OWRF Lift Station located at the north end of the City's Ocotillo Water Reclaimed Facility (OWRF). As part of the project, one new diversion structure and two new junction structures were strategically placed to provide the City with the ability to route wastewater flows to maximize the use of the existing sewers in the area. Another diversion structure was provided by Intel within their on-site sewage collection system to divert flows to the new 42-inch gravity relief sewer. By diverting their flows through the new relief sewer, it provided additional sewer capacity within the existing 27-inch gravity sewer located in Dobson Road.

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 *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Phoenix 7A-GS2 3 MG Concrete Reservoir Project	2012	2014

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	a. TOTAL COST OF PROJECT
City of Phoenix	$7.2 Million	$7.2 Million

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Wilson Engineers was selected to provide design and construction services for the City of Phoenix's 7A-GS2 3 MG Concrete Reservoir Project. The first phase includes one 3 MG partially buried concrete reservoir system filled from the City's Water Distribution System Zone 6A and operating on the City's Zone 5E hydraulic grade. Along with the reservoir, the design includes the initial gas based chlorine facilities and chlortainer storage vessels, reservoir isolation valve vault and PRV station to transfer flow from Zone 6A to 5E, a reservoir recirculation pump station, and perimeter wall and landscaping improvements supported by City Art Funds. Lastly, with the implementation of the Stage II DBP Rule forthcoming, the reservoir was designed to easily accommodate the installation of five future surface aerators to reduce THMs (the design includes 'knock-outs' for future access hatches, guide rails, spare electrical capacity, and increased ventilation for the reservoir).

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 *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Phoenix 3B-B2 Booster Pump Station Replacement Project	2012	2014

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	a. TOTAL COST OF PROJECT
City of Phoenix	$8.5 Million	$8.5 Million

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Wilson Engineers was selected by the City of Phoenix to provide design and construction related services for replacing the 3B-B2 12 MGD Booster Pump Station that serves Pressure Zone 3B. The new booster pump station is being designated as 3B-B4. The design includes four new vertical turbine can pumps, a pressure sustaining return line, a 5,000 gallon surge tank, and a new electrical building housing 4,160V equipment. As part of this project a new 4,160V service entrance is being coordinated with SRP. The process control strategy for the facility was coordinated with the City's Operations Staff to ensure that the local control and SCADA control met the City's desires.

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 *(City and State)*	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION *(If applicable)*
City of Chandler OWRF/AWRF Lift Station	2011	2013

23. PROJECT OWNER'S INFORMATION

c .PROJECT OWNER	d .DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
City of Chandler	$17.1 Million	$17.1 Million

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The OWRF/AWRF Lift Station designed by Wilson Engineers was constructed within the Ocotillo WRF site and has the ability to pump up to 20 MGD to the Airport WRF. The Lift Station was also Master planned for a future OWRF Influent Pump Station. The Lift Station is able to collect flows from a 66" gravity line that carries primarily domestic sewage and from a 42" gravity line that carries industrial sewage from Intel. The Lift Station consists of three independent compartments connected by actuated sluice gates that allows the Lift Station to collect sewage from those two different sources and convey flows via the new 36" Ocotillo Force Main and/or via the existing 24" Queen Creek Force Main. Each of the two main wet wells includes two (2) 385HP VFD pumps and one (1) 140HP VFD pump. The wet wells are able to be operated independently or as one. The Lift Station design also includes a bridge crane to service the pumps, odor control units that consist of spray nozzles that release hydroxyl ions to eliminate odors and reduce pH corrosion, an electrical building and a backup generator.

6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. *(ATTACH ADDITIONAL SHEETS AS NEEDED.)*

Wilson Engineers provides sound technical expertise and comprehensive design solutions to fit our client's goals. Our project teams deliver a full complement of master planning, design, and construction services for water, wastewater, and reclaimed water systems.

- Water Systems: Feasibility studies, wells, distribution systems, pump stations, storage facilities, and treatment plants.
- Wastewater Systems: Studies, collection system designs, treatment plants, and lift stations.

The adjacent table presents relevant projects that our Firm has completed for Arizona State Agencies.

Firm Description
Wilson Engineers is an Arizona-based firm with a staff of over 50 personnel specializing in water, wastewater, reclaimed water engineering, and construction management. We provide full-service planning, design, construction management, start-up, and commissioning services for public and private clients.

Firm Contact: Stephen Todd, PE, Wilson Engineers, 9633 South 48th Street Suite 290, Phoenix, Arizona 85044 | Tel: 480-893-8860 | Fax: 480-893-8968

Steve.Todd@Wilson-Engineers.com

Our employees have been helping Arizona communities grow since 1985. Our local clients include the cities of Avondale, Buckeye, Chandler, Gilbert, Glendale, Goodyear, Mesa, Peoria, Phoenix, Scottsdale, Tempe, and other Arizona communities.
We have also worked for such state clients as Arizona Department of Administration, Arizona State Parks Department, Arizona Department of Environmental Quality, Arizona Game and Fish Department, and Arizona Department of Corrections. We bring the following features to your projects:

- Owner-level leadership to facilitate your schedule needs—Stephen Todd, PE, our designated project principal, is an Arizona-registered professional engineer and a veteran engineer with the authority to make critical project decisions.
- A thorough understanding of the local agency approval and permitting processes, and can phase tasks as needed, to meet schedule requirements.
- Strategic relationships with reliable local subconsultants to ensure we build synergistic teams to create the best design for each unique client situation. They know our computer-aided drafting (CAD) standards, procedures, and preferences, which expedites drawing drafts and revisions.
- Relevant project experience allows us to have relationships with local contractors who know our designs are based on sound solutions incorporating proven constructability options.

ARIZONA STATE AGENCY PROJECTS

Year	Agency	Project
1986	ADOA	ASP Safford Wastewater Treatment Plant
1986	ADOA	ASP Perryville Wastewater Treatment Plant
1987	ASP	Patagonia State Park Wastewater Treatment Plant
1987	ADOA	ASPC Florence Wells and Transmission Mains
1988	ADOA	ASP Ft. Grant Wastewater Treatment Plant
1988	AG&F	Pinetop Springs Improvement Study
1990	ADOA	Block 2 Capitol Addition Boundary Survey
1990	ADOA	ASP Safford Utility System Expansion
1991	AG&F	Bubbling Ponds Hatchery Improvements
1992	ASP	Slide Rock Wastewater Treatment Improvements
1993	ADOA	ASPC Eyman Wastewater Treatment Expansion
1993	ADOA	ASPC Tucson Pump Stations and Force Mains
1993	ADOA	ASP Yuma Aquifer Protection Permit
1995	ADOA	ASP Globe Wastewater Treatment Plant
1996	ADEQ	On Call Open End Contract (18 separate task orders)
1997	AG&F	Ben Avery Utilities Study and Design
1999	ADOA	ASPC Tucson 2 Utility Systems
2000	ADOA	ASP Ft Grant Well Improvement Study
2001	ADOA	ASP Yuma Water Supply Pilot Testing
2002	ADOA	ASP Ft. Grant Landfill Closure
2003	ADJC	SWRJCC Wetland Well Evaluation
2003	ADC	ASPC Florence - Picacho Unit Septic Tank
2004	ADOA	1,000 Beds Utility Systems
2004	ADOA	ASPC Eyman Utilities Canal Crossing Permits
2006	ADC	ASPC Florence - Picacho Unit Arsenic Removal System
2006	ADC	ASPC Lewis Brine Disposal Study
2007	ADOA	Adobe Mountain School Arsenic Removal System
2008	ADOA	ASPC Lewis Water Improvements
2008	ADOA	ASPC Tucson WWTP Closure
2009	ADOA	ASPC Eyman Permitting
2010	ADOA	ASPC Lewis APP Modifications
2010	ADOA	ASPC Ft. Grant Well Rehabilitation
2010	ASPC	Lewis Wells
2011	ASPC	Lewis Well 4 Motor Upgrade

ADOA - Arizona Department of Administration
ASP - Arizona State Parks Department
AG&F - Arizona Game and Fish Department
ADEQ - Arizona Department of Environmental Quality
ADJCD - Arizona Department of Juvenile Corrections
ADC - Arizona Department of Corrections

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:	95
b.	Percentage of Total Work Attributable to Non-Government Work:	5

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

Signature: _____ Date: 12/21/2015

Name: Steve Todd Title: Principal