



Offer and Acceptance

State of Arizona
State Procurement Office
100 N. 15th Ave. Suite 201
Phoenix, AZ 85007

SOLICITATION NO.: ADSP016-00005912 Request
for Qualifications: 2016 Annual Professional
Services List

PAGE
1

Offeror: **Western Technologies**

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.

Western Technologies Inc.

Company Name

3737 East Broadway Road

Address

Phoenix

Arizona

85040

City

State

Zip

randy.m@wt-us.com

Contact Email Address

Signature of Person Authorized to Sign Offer

Randolph Marwig

Printed Name

Managing Director / Senior Principal

Title

Phone: 602-437-3737

Fax: 602-470-1341

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. ADSP016-00005912

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, contract release document or written notice to proceed.

State of Arizona
Awarded this 29 day of February 2016

Procurement Officer



ATTACHMENT I – General Qualifications
ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

STATE PROCUREMENT OFFICE
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(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:	Western Technologies Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	3737 East Broadway Road
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85040

f. YEAR ESTABLISHED:	1955
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Randy Marwig
i. POINT OF CONTACT TELEPHONE NUMBER:	602-437-3737
j. POINT OF CONTACT E-MAIL ADDRESS:	randy.m@wt-us.com

k. NAME OF FIRM (If block 1a is a branch office):	Western Technologies Inc.
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ATTACHMENT I – General Qualifications

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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	17	5
Civil Engineer	S	3	1
Construction Inspector	P	117	21
Construction Inspector	S	15	1
Environmental Engineer	P	6	3
Environmental Engineer	S	0	0
Environmental Scientist	P	24	9
Environmental Scientist	S	0	0
Geological Engineer	P	7	2
Geological Engineer	S	3	1
Geologist	P	7	2
Geologist	S	3	1
Project Manager	P	21	6
Project Manager	S	26	13
Soils Engineer	P	10	3
Soils Engineer	S	5	2
Technical/Analyst	P	2	0
Technical /Analyst	S	9	4
Other	P	54	25
Total		265	76



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

a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
231	Construction Materials Testing	6
10	Forensic Engineering	1
36	Mold Investigations	1
227	Phase 1 Environmental	4
15	Seismic Design and Studies	1
190	Soils and Geologic Studies; Foundations	3
95	Testing and Inspection Services	5

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME Randolph Marwig, P.E.	b. ROLE IN THIS CONTRACT Principal Contact Senior Geotechnical Engineer Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 21
d. LOCATION <i>(City and State)</i> Western Technologies Inc. – Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS: Civil Engineering - Geotechnical BS: Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer – Arizona, New Mexico, Colorado, California	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Pavement Design for Indian School and Jackrabbit Roads Buckeye, AZ	(2) YEAR COMPLETED 2015
		Professional Services Geotechnical and Pavement Engineering
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Additional subsurface exploration and geotechnical evaluation for widening of two arterial roadways. Pavement section design was also provided. Mr. Marwig was the project manager and design engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Forensic Evaluation of Distressed Concrete Floor Slabs – Tempe, AZ	(2) YEAR COMPLETED 2015
		Professional Services Forensic Materials Engineering
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The purpose of our services is to provide information on the compressive strength and evaluate the potential for alkali-silica aggregate reactions (ASR) within the existing concrete ceiling slabs in a baseball stadium locker rooms. Mr. Marwig was the Lead Investigation Engineer and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Tempe Parkside Development – Tempe, AZ	(2) YEAR COMPLETED 2015
		Professional Services Geotechnical Engineering
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performed subsurface exploration and geotechnical analysis for 3- to 5-story multi-family structures with a basement. Mr. Marwig was the Project Manager and geotechnical design engineer.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> New Water Tank – Globe, AZ	(2) YEAR COMPLETED 2015
		Professional Services Geotechnical Engineering
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Subsurface exploration and geotechnical analyses for a City of Globe water storage tank. The steel tank is to be 70 to 80 feet in diameter and 35 feet high, with a capacity of 1,000,000 gallons. The tank will be supported on a concrete mat foundation placed about 3 to 5 feet below existing grade. Mr. Marwig served as Project Manager and Senior Geotechnical Engineer.	<input type="checkbox"/> Check if project performed with current firm



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

a. NAME Vicky L. Aviles, AEP, CIAQM	b. ROLE IN THIS CONTRACT Principal Contact Senior Environmental Project Manager Senior Industrial Hygienist	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 17
d. LOCATION (<i>City and State</i>) Western Technologies Inc. – Phoenix, Arizona			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Environmental Studies: CAC, Rio Salado, ASU		f. PROFESSIONAL TRAINING - REGISTRATIONS National Registry of Environmental Professionals (NREP), NIOSH 582 Analyst, EPA Asbestos/Lead-based Paint Certifications	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Environmental Information Association (EIA), American Industrial Hygiene Association (AIHA)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Pre/Post Remediation Air Monitoring and Oversight, Phoenix, AZ for Arizona Department of Administration (ADOA)	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Evaluated contamination of hydrocarbons, ammonia, and ethylene glycol in the Old Ice House in the basement of the ADOA structure, designed remediation, and oversaw clean-up efforts by others. Ms. Aviles was the Project Manager.	Environmental Services Construction (if applicable) <input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Limited Asbestos Surveys, 6 Structures, Adobe Mountain Correctional Facilities for the ADOA	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE WT conducted the limited asbestos surveys in 6 structures to accommodate installation of fire sprinkler systems for code compliance. The surveys included testing materials associated with walls, ceiling and mechanical piping systems. Ms. Aviles was the Project Manager for this project.	Environmental Services Construction (if applicable) <input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Dignity Health Services, Chandler Regional Medical Center, Chandler, AZ Indoor Air Quality – Airborne Mold Spore Sampling	(2) YEAR COMPLETED 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Performed visual evaluation for the identification of mold and collected ambient air samples for the identification of airborne mold spores in various locations within the facility. Ms. Aviles was the Project Manager for this project.	Environmental Services Construction (if applicable) <input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) City of Goodyear Fire Department – Indoor Air Quality Testing	(2) YEAR COMPLETED 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE WT conducted indoor air quality testing within a fire station for the detection of mold, volatile organic compounds, carbon monoxide, and carbon dioxide. We prepared a plan of action and conducted subsequent follow-up and post remediation air sampling verification. Ms. Aviles was the project manager for this project.	Environmental Services Construction (if applicable) <input checked="" type="checkbox"/> Check if project performed with current firm



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

a. NAME Phil Feliz, SET	b. ROLE IN THIS CONTRACT Senior Asphalt Materials Consultant Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 47	2. WITH CURRENT FIRM 32

d. LOCATION *(City and State)* Western Technologies Inc. – Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> AS: Civil Engineering Technology	f. PROFESSIONAL TRAINING - REGISTRATIONS NICET Level IV – Soils, Concrete, Asphalt
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*

NICET Level III – Transportation and Highway Materials
ATTI –Asphalt Technician
AZ Rock Products Assoc. – Asphalt Technical Committee

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> On-Call Geotechnical & Materials Testing Maricopa County Department of Transportation – Maricopa County, AZ	(2) YEAR COMPLETED On Going to 2017	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Currently providing consultation services and materials laboratory testing of various pavement designs and construction. Projects range from new to existing roadways, including component materials testing and acceptance, mix designs, and forensic pavement analyses throughout the county. Mr. Feliz serves as Principal Consultant, Project Manager and asphalt mix designer.	<table border="1"> <tr> <td>Professional Services Materials Testing & Engineering</td> <td>Construction (if applicable)</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services Materials Testing & Engineering
Professional Services Materials Testing & Engineering	Construction (if applicable)		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOT Airport Pavement Preservation Program - Statewide, AZ.	(2) YEAR COMPLETED On Going	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Developed specifications for asphalt paving materials and construction methods. Provided consulting services for pavement rehabilitation and reviewed materials and mix designs submittals. Runways, taxiways and parking aprons consisted of asphalt-rubber overlays while a Type II slurry seal was used on various municipal and regional airport runways. Mr. Feliz serves as Principal Consultant and Project Manager.	<table border="1"> <tr> <td>Professional Services Pavement Engineering Materials Testing</td> <td>Construction (if applicable)</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services Pavement Engineering Materials Testing
Professional Services Pavement Engineering Materials Testing	Construction (if applicable)		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOT On-Call Statewide Binder Testing – Statewide, AZ	(2) YEAR COMPLETED On Going to 2017	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Asphalt binder testing and materials consultation. Primary contact / coordinator for ADOT for testing assignments; Senior Consultant for test review and analysis.	<table border="1"> <tr> <td>Professional Services Pavement Engineering Materials Testing</td> <td>Construction (if applicable)</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services Pavement Engineering Materials Testing
Professional Services Pavement Engineering Materials Testing	Construction (if applicable)		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> ADOT On-Call Referee Testing of Field Produced Asphaltic Concrete Statewide - AZ	(2) YEAR COMPLETED On Going to 2017	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The engineering services requested consist of splitting and testing acceptance samples of asphaltic concrete. Test results are submitted to the ADOT Materials Group along with a final report with all supporting laboratory data. Mr. Feliz serves as Project Manager and Senior Consultant.	<table border="1"> <tr> <td>Professional Services Pavement Engineering Materials Testing</td> <td>Construction (if applicable)</td> </tr> </table> <input checked="" type="checkbox"/> Check if project performed with current firm	Professional Services Pavement Engineering Materials Testing
Professional Services Pavement Engineering Materials Testing	Construction (if applicable)		



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

a. NAME Raphael Tixier, Ph.D., P.E.	b. ROLE IN THIS CONTRACT Lead Materials Engineer Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 32	2. WITH CURRENT FIRM 14
d. LOCATION <i>(City and State)</i> Western Technologies Inc. – Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> MS: Civil Engineering Ph.D.: Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer - Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Vertical Concrete Cask – Acceptance Testing, Palo Verde Nuclear Generating Station – Maricopa County, AZ	(2) YEAR COMPLETED On Going	Professional Services Construction Inspection, Material Testing and Engineering	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Senior Consultant for concrete batch plant inspections and acceptance testing of reinforced concrete casks for storage of spent nuclear fuel.	<input checked="" type="checkbox"/> Check if project performed with current firm		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Drury Inn – Tempe, AZ	(2) YEAR COMPLETED 2015	Professional Services Construction Materials Testing and Inspection Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for materials testing and special building code inspection services for this 7-story concrete frame and masonry hotel.	<input checked="" type="checkbox"/> Check if project performed with current firm		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Retrofit of Aligned Administration & Data Center – Phoenix, AZ	(2) YEAR COMPLETED 2016	Professional Services Construction Materials Testing and Inspection Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Lead Consultant for materials testing and special building code inspection services for this retrofit of a 517,462 square foot steel frame and masonry administration and data center.	<input checked="" type="checkbox"/> Check if project performed with current firm		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Merrill Gardens at Anthem – Anthem, AZ	(2) YEAR COMPLETED 2016	Professional Services Construction Materials Testing and Inspection Services	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager and Lead Engineer for materials testing and special building code inspection services for this two-story wood-frame and masonry assisted-living and care facility.	<input checked="" type="checkbox"/> Check if project performed with current firm		



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

a. NAME David Regonini, REA	b. ROLE IN THIS CONTRACT Senior Environmental Scientist Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 27
d. LOCATION <i>(City and State)</i> Western Technologies Inc. – Phoenix, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS: Environmental Science/Chemistry		f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Environmental Assessor	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> EPA Approved Asbestos Inspector EPA Certified Lead Based Paint Risk Assessor EPA Approved Asbestos Management Planner OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessment United Printing and Mailing – Phoenix, AZ	(2) YEAR COMPLETED 2015 Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies Inc. completed a Phase I Environmental Site Assessment of the United Printing and Mailing in Phoenix, Arizona, in conformance with the scope and limitations of ASTM E 1527-13 and our contract with our client. Mr. Regonini served as Lead Environmental Scientist and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessment & Asbestos Survey Canyon Pointe Academy – Glendale, AZ	(2) YEAR COMPLETED 2015 Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies Inc. completed a Phase I Environmental Site Assessment of Canyon Pointe Academy facility in Glendale, Arizona, in conformance with the scope and limitations of ASTM E 1527-13 and our contract with our client. In addition, an asbestos survey was performed. Mr. Regonini served as Lead Environmental Scientist and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessment Jones Ford Dealership – Buckeye, AZ	(2) YEAR COMPLETED 2015 Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The Property consists of approximately 9 acres of land improved with an automotive sales and service facility. The Phase 1 was completed in conformance with the scope and limitations of ASTM E 1527-13. Mr. Regonini served as Lead Environmental Scientist and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase II Environmental Site Assessment 89 Acre Land Parcel – Buckeye, AZ	(2) YEAR COMPLETED 2015 Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE WT previously completed a Phase I ESA of the Property and identified potential recognized environmental conditions (RECs) in connection with two former cattle watering ponds, a former gasoline underground storage tank (UST) system, and a dispenser for an above-ground storage tank (AST) system. WT then completed a Phase II assessment including borings and environmental sampling and analytical testing. Mr. Regonini served as Lead Environmental Scientist and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Steven C. Kaminski, R.G.	b. ROLE IN THIS CONTRACT Project Geologist Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 28	2. WITH CURRENT FIRM 18

d. LOCATION *(City and State)* Western Technologies Inc. – Phoenix, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS: Geology	f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Geologist - Arizona
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessment 38 Acres of Land – Tolleson, AZ	(2) YEAR COMPLETED 2015	Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
	Western Technologies completed a Phase I Environmental Site Assessment of 38 acres of land located in Tolleson, Arizona. The purpose of this ESA was to identify to the extent feasible, pursuant to the processes described herein, recognized environmental conditions (RECs), in connection with the Property. The Property consisted of 38 acres of agricultural land. A rail spur was observed crossing the northwestern, western, and southwestern portions of the Property. Mr. Kaminski served as Lead Scientist and Project Manager.			
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Subsurface Assessment and Remediation - ADEQ Carwash Facility – Mesa, AZ	(2) YEAR COMPLETED 2016	Professional Services Environmental Sampling, Analysis, and Remediation	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
	Western Technologies performed a subsurface assessment and developed corrective actions for this former underground storage tank (UST) site. Services included drilling and soil sampling; installation of soil vapor extraction, air sparging, and groundwater monitoring wells; startup and operation of an SVE/AS system for a period of 12 mos. Mr. Kaminski served as Lead Environmental Scientist and Project Geologist.			
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessment 95 Acres of Land – Chandler, AZ	(2) YEAR COMPLETED 2014	Professional Services Environmental Science	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/>	Check if project performed with current firm	
	Western Technologies Inc. completed a Phase I Environmental Site Assessment for 95 acres of former agricultural land in Chandler, Arizona, in conformance with the scope and limitations of ASTM E 1527-13 and our contract with our client. Mr. Kaminski served as Lead Environmental Scientist and Project Manager.			



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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> Glendale Municipal Airport – Apron Rehabilitation Glendale, Arizona	b. YEAR COMPLETED 2015	
	PROFESSIONAL SERVICES Geotechnical Engineering, Construction Inspection and Materials Testing	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Glendale Engineering Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT's Budget = \$44,000	e. TOTAL COST OF PROJECT WT's Total Billed = \$41,219
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies provided Geotechnical Engineering services, flexible asphalt pavement design, and acceptance materials testing for subbase, base course, asphalt, and portland cement concrete for apron rehabilitation and lighting improvements. Tests performed on site and in our laboratory included:

- ASTM C 29 Unit Weight of Aggregate
- ASTM C 88 Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
- ASTM C 117 Materials Finer than 75um (No. 200) Sieve in Mineral Aggregates by Washing
- ASTM C 131 Resistance to Abrasion of Small Size Coarse Aggregate by Use of the Los Angeles Machine
- ASTM C 136 Sieve or Screen Analysis of Fine and Coarse Aggregate
- ASTM D 75 Sampling Aggregate
- ASTM D 693 Crushed Stone, Crushed Slag, and Crushed Gravel for Dry-or Water-Bound Macadam Base Courses and Bituminous Macadam Base and Surface Courses of Pavements.
- ASTM D 698 Moisture-Density Relations of Soils and Soil - Aggregate Mixtures Using 5.5-lb (2.49-kg) Rammer and 12-in (305mm) Drop
- ASTM D 1556 Density of Soil in Place by the Sand - Cone Method
- ASTM D 1557 Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-lb (4.5kg) Rammer and 18 in (457 mm) Drop
- ASTM D 2167 Density of Soil in Place by the Rubber-Balloon Method
- ASTM D 2419 Sand Equivalent Value of Soils and Fine Aggregate
- ASTM D 2922 Density of Soil and Soil-Aggregate in Place by Nuclear Methods
- ASTM D 3017 Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods



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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 (City and State) Banner Behavioral Health Hospital Additions Scottsdale, Arizona	b. YEAR COMPLETED 2015	
	PROFESSIONAL SERVICES Geotechnical Engineering	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Banner Healthcare	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT Cost Proposal = \$2475.00	e. TOTAL COST OF PROJECT WT Total Billing = \$2475.00
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The proposed hospital additions will be two- and three-story, slab-on-grade medical buildings using frame and masonry construction. Two separate buildings will be added to the existing campus. The westernmost building is a 3,200 square-foot building, while the eastern building is much larger. Maximum wall and column loads are assumed to be 7 klf and 150 kips, respectively.

Our geotechnical evaluation report contained the results of our subsurface exploration and engineering evaluation for the proposed hospital additions. The report provided information and recommendations regarding:

- Subsurface conditions
- Foundation design parameters
- Lateral earth pressures
- Seismic considerations
- Slabs-on-grade
- Drainage
- Corrosivity
- On-site pavement sections
- Excavation conditions
- Earthwork, including site preparation, fill placement, and suitability of existing soils for fill materials, and compaction



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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 (City and State) Healthy Building Re-Evaluation Goodyear, Arizona	b. YEAR COMPLETED 2015	
	PROFESSIONAL SERVICES Indoor Air Quality Services	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Goodyear – Fire Department	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT Cost Proposal = \$496.00	e. TOTAL COST OF PROJECT WT Total Billing = \$496.00
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies Inc. (WT) performed a re-evaluation of indoor air quality (IAQ) monitoring conducted at Fire Station 181.

A Environmental Specialist conducted initial IAQ monitoring tasks at the Fire Station consisting of airborne mold spore, surface tape-lift, and carbon dioxide sampling. WT prepared a report of the initial IAQ monitoring findings titled, *Healthy Building Evaluation, Fire Station 181, Goodyear Arizona*. Based on the airborne mold and tape-lift sample results from the July event, the duct system of Fire Station 181 was reported cleaned.

At the request of the City of Goodyear Fire Department, WT conducted a post duct cleaning evaluation of the indoor air quality. On September 29, 2015, a WT Environmental Specialist conducted the re-evaluation of IAQ monitoring tasks consisting of airborne mold spore sampling and surface tape lift sampling. WT's findings of the re-evaluation of IAQ monitoring tasks and comparisons to the initial July event were presented in a report.



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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 (City and State) Phase 1 Environmental Site Assessment Pinnacle Pointe Academy – Glendale, Arizona	b. YEAR COMPLETED 2015	
	PROFESSIONAL SERVICES Environmental Science	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pointe Educational Services	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT Cost Proposal = \$3150.00	e. TOTAL COST OF PROJECT WT Total Billing = \$1375.00
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies Inc. (WT) completed a Phase I Environmental Site Assessment (ESA) of Pinnacle Pointe Academy in Glendale, Arizona. The purpose of this ESA was to identify to the extent feasible, pursuant to the processes described herein, recognized environmental conditions (RECs), in connection with the Property. The asbestos survey was to generally follow the sampling guidelines contained in the Asbestos Hazard Emergency Response Act (AHERA), however this service was not performed as proposed at the time of the Phase 1 services.

The scope of services generally followed the applicable provisions of the Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E1527-13) and the scope and limitations in our contract for this project, and consisted of a reconnaissance of the Property, interviews, a review of physical setting information, reviews of historical use research, reviews of standard Federal and State databases and local records, file reviews (if deemed necessary by the environmental professional), and preparation of this report.



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6. ADDITIONAL INFORMATION

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

WESTERN TECHNOLOGIES INC.

Nondestructive Testing and Evaluation Services (NDT)

By definition, nondestructive testing and evaluation is the means by which materials and structures may be inspected without disruption or impairment of serviceability. **Western Technologies'** inspectors and technicians have successfully performed tens-of-thousands of nondestructive field and fabrication shop inspections and tests on structural steel components, connections, and assemblages. In addition, we have applied nondestructive techniques to manufactured components and castings looking for both surface and subsurface flaws. **Western Technologies'** personnel are certified for the tests and inspections that they perform by such agencies as ASNT, AWS and the ICC. Our NDT equipment is typically portable for use on job sites or in plant facilities, and calibrated in accordance with the applicable code or specification requirements. All test results are evaluated by our knowledgeable and experienced Level II or Level III technicians.

Western Technologies provides inspection and consultation consistent with the following codes and standards:

AWS ♦ API ♦ ASME ♦ ASTM ♦ AWWA ♦ AISC ♦ ASNT ♦ DOT ♦ IBC

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:	19%
b.	Percentage of Total Work Attributable to Non-Government Work:	81%

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

Signature: 

Date: December 21, 2015

Name: Randolph Marwig

Title: Managing Director – Phoenix



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(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:	Western Technologies Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	2400 East Huntington Drive
c. FIRM (OR BRANCH OFFICE) CITY:	Flagstaff
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	86004

f. YEAR ESTABLISHED:	1976
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(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Todd Sayers
i. POINT OF CONTACT TELEPHONE NUMBER:	928-774-8700
j. POINT OF CONTACT E-MAIL ADDRESS:	todd.s@wt-us.com

k. NAME OF FIRM (If block 1a is a branch office):	Western Technologies Inc.
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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	17	0
Civil Engineer	S	3	0
Construction Inspector	P	117	5
Construction Inspector	S	15	21
Environmental Engineer	P	6	1
Environmental Engineer	S	0	0
Environmental Scientist	P	24	3
Environmental Scientist	S	0	6
Geological Engineer	P	7	2
Geological Engineer	S	3	1
Geologist	P	7	2
Geologist	S	3	1
Project Manager	P	21	9
Project Manager	S	26	2
Soils Engineer	P	10	2
Soils Engineer	S	5	1
Technical/Analyst	P	2	1
Technical /Analyst	S	9	3
Other	P	54	3
Total		329	62



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

a. NAME John Hahle, SET	b. ROLE IN THIS CONTRACT Vice President Materials Director Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 45	2. WITH CURRENT FIRM 45
d. LOCATION (<i>City and State</i>) Western Technologies Inc. – Phoenix, Arizona			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BS: Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS EAA Certified Inspector and Specialist, ICC Special Inspector, NICET Transportation	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) NICET CMT Level IV, NICET Geotechnical, OSHA 32 Hour Safety Program, ACI, ATTI			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Flagstaff-Cameron Highway from US89-SR64 to the Little Colorado River, Cameron, Arizona	(2) YEAR COMPLETED 2016 (current project)	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing for the reconstruction of nearly five miles of highway, two major bridges, and a roundabout. Construction also consisted of pedestrian underpasses, retaining walls, and a lighting system. Mr. Hahle was the Project Principal and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Lees Ferry Road and Paria River Bridge, Marble Canyon, Arizona	(2) YEAR COMPLETED 2013	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing for the reconstruction of nearly 4.5 miles of highway, various washes and access roads, and a bridge. Mr. Hahle was the Project Principal and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) SR-98 Potato Wash, Navajo County, Arizona	(2) YEAR COMPLETED 2013	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing for the reconstruction and vertical profile raising of sections on a Navajo Nation highway. Mr. Hahle was the Project Principal and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Lake Mary Road Construction, Flagstaff, Arizona	(2) YEAR COMPLETED 2009	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		



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



Check if project performed with current firm

Western Technologies provided construction materials testing and quality assurance for the construction of a federal highway south of Flagstaff. Project included large embankments, curb and gutter, relocation of utilities, box culverts, CMP culverts, aggregate base, and paving. This project also included work at the Lake Mary boat ramp and Mormon Lake scenic view area. Mr. Hahle was the Project Principal and Project Manager.



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

a. NAME Craig Wiedeman, P.E.	b. ROLE IN THIS CONTRACT Principal Contact Senior Geotechnical Engineer Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 43	2. WITH CURRENT FIRM 37
d. LOCATION <i>(City and State)</i> Western Technologies Inc. – Flagstaff, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS: Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer – Arizona, Colorado, New Mexico, Nevada, Utah	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Professional Land Surveyor – Arizona			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> McMillan Mesa Village, Flagstaff, Arizona	(2) YEAR COMPLETED 2015	Professional Services Geotechnical Engineering	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the construction of three separate subdivisions containing single-family residences. Mr. Wiedeman was the Project Engineer and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm		
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Paintbrush South, Coconino County, Arizona	(2) YEAR COMPLETED 2014	Professional Services Geotechnical Engineering	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the excavation conditions, corrosivity, and earthwork of a 6,000 linear foot pipe and open channel drainage feature. Final materials analysis included QC verification of all earthwork. Mr. Wiedeman was the Project Engineer and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm		
3.	(1) TITLE AND LOCATION <i>(City and State)</i> 20 Scattered Single-Family Residences, Navajo County, Arizona	(2) YEAR COMPLETED 2014	Professional Services Geotechnical Engineering	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the construction of 20 individual sites throughout the Hopi Reservation. Mr. Wiedeman was the Project Engineer and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm		
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Water Distribution System, Diamond Valley, Prescott Valley, Arizona	(2) YEAR COMPLETED 2014	Professional Services Geotechnical Engineering	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the construction of a new water distribution system with new main lines and service connections. The total length of the main lines was approximately 72,000 linear feet. Mr. Wiedeman was the Project Engineer and Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm		



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

a. NAME Maximilian Kemnitz, P.E.	b. ROLE IN THIS CONTRACT Principal Contact Senior Geotechnical Engineer Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 43	2. WITH CURRENT FIRM 37

d. LOCATION (*City and State*) Western Technologies Inc. – Flagstaff, Arizona

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) MS: Civil Engineering BS: Civil Engineering	f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer – Arizona and Nevada
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g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 EPA Asbestos Contractor/Supervisor, EPA Asbestos Building Inspector, OSHA 40-Hour Hazardous Waste Site Operations and Emergency Response

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Proposed Student Housing, Northern Arizona University, Flagstaff, Arizona	(2) YEAR COMPLETED 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies completed a Phase I and Phase II Environmental Site Assessment for a proposed student housing project. The assessment addressed ground impacts due to an abandoned gas station. Mr. Kemnitz served as Lead Environmental Scientist and Project Manager.	Professional Services Environmental Science
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Former Sawmill, Williams, Arizona	(2) YEAR COMPLETED 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies completed a Phase I and Phase II Environmental Site Assessment on a former sawmill that included numerous test pits, sampling and laboratory testing for regulated compounds in soil at locations of piled mechanical debris, drums, and containers. Mr. Kemnitz served as Lead Environmental Scientist and Project Manager.	Professional Services Environmental Science
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Proposed Hotel Site, Flagstaff, Arizona	(2) YEAR COMPLETED 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the construction of a new multi-story hotel in downtown Flagstaff. Mr. Kemnitz was the Project Engineer and Project Manager.	Professional Services Geotechnical Engineering
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Trident Missile Igloo Storage Areas, Camp Navajo, Arizona	(2) YEAR COMPLETED 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided geotechnical engineering services for the construction eight, Trident D-2 missile storage facilities. Mr. Kemnitz was the Project Engineer and Project Manager.	Professional Services Geotechnical Engineering



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

a. NAME Jesus Linn	b. ROLE IN THIS CONTRACT Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 25

d. LOCATION (*City and State*) Western Technologies Inc. – Flagstaff, Arizona

e. EDUCATION (*DEGREE AND SPECIALIZATION*)
BS: Civil Engineering

f. PROFESSIONAL TRAINING - REGISTRATIONS
Certified Engineering Technologist, NICET, ICC

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

OSHA 32 Hour Safety Program, ACI

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Mountain Trail Apartments, Flagstaff, Arizona	(2) YEAR COMPLETED 2016 (current project)	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies is providing construction materials testing and special inspection for the construction of a 15-unit, multi-story apartment complex. Mr. Linn is the Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Fire and Life Safety Renovations, Northern Arizona University, Flagstaff, Arizona	(2) YEAR COMPLETED 2015	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing and special inspection for the renovation and fire protection upgrades on multiple student dormitories. Mr. Linn was the Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Athletics and Recreation Center, Northern Arizona University, Flagstaff, Arizona	(2) YEAR COMPLETED 2014	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing and special inspection for the construction of a new athletics facility that included an Olympic competition and dive pool, and indoor and outdoor tennis courts. Mr. Linn was the Project Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) The Village at Aspen Place, Flagstaff, Arizona	(2) YEAR COMPLETED 2014	
		<table border="1"> <tr> <td>Professional Services Construction Materials Testing and Special Inspection</td> <td>Construction (if applicable)</td> </tr> </table>	Professional Services Construction Materials Testing and Special Inspection
Professional Services Construction Materials Testing and Special Inspection	Construction (if applicable)		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Western Technologies provided construction materials testing and special inspection for the construction of a luxury, multi-story apartment/condominium complex with mixed-use retail and parking structure. Mr. Linn was the Project Manager.	<input checked="" type="checkbox"/> 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> Science and Health Building, Northern Arizona University, Flagstaff, Arizona		b. YEAR COMPLETED – 2015	
		PROFESSIONAL SERVICES Geotechnical Engineering, Construction Material Testing, and Special Inspection	CONSTRUCTION <i>(If applicable)</i>
c. PROJECT OWNER Northern Arizona University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$130,240	e. TOTAL COST OF PROJECT \$323,074	

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

Western Technologies provided a comprehensive geotechnical evaluation for six-story steel frame and concrete structure with a basement and underground tunnels and special inspection and construction materials testing during construction. The final report included a comprehensive geotechnical evaluation, and construction material testing with recommendations for foundation and pavement design, excavation, lateral earth pressures, seismic and site preparation.

a. TITLE AND LOCATION <i>(City and State)</i> Northern Arizona Veterans Memorial Cemetery, Camp Navajo, Arizona		b. YEAR COMPLETED – 2010	
		PROFESSIONAL SERVICES Geotechnical Engineering, Construction Material Testing, and Special Inspection	CONSTRUCTION <i>(If applicable)</i>
c. PROJECT OWNER Arizona Department of Emergency Response	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$22,481	e. TOTAL COST OF PROJECT \$22,436	

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

Western Technologies provided a comprehensive geotechnical evaluation for the construction of a Veterans Cemetery and special inspection and construction materials testing during construction. The final report included a comprehensive geotechnical evaluation and construction material testing with recommendations for foundation and pavement design, excavation, seismic and site preparation.



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a. TITLE AND LOCATION <i>(City and State)</i> Love’s Travel Stop, Williams, Arizona		b. YEAR COMPLETED – 2014	
		PROFESSIONAL SERVICES Geotechnical Engineering, Construction Material Testing, and Special Inspection	CONSTRUCTION <i>(If applicable)</i>
c. PROJECT OWNER Love’s Travel Stops	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$83,000	e. TOTAL COST OF PROJECT \$148,227	

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

Western Technologies provided a comprehensive geotechnical evaluation, special inspections, and construction materials testing for the construction of a 583,305 square foot combined restaurant, gas station, and truck repair center. Construction also consisted of adjacent parking area, access road, and utility lines. The final report included a comprehensive geotechnical evaluation, special inspection, and quality assurance testing for owner including observation and testing of soil, special inspection of building area, asphaltic concrete, and SWPPP inspections.

a. TITLE AND LOCATION <i>(City and State)</i> Flagstaff Fire Station No.2, Flagstaff, Arizona		b. YEAR COMPLETED – 2010	
		PROFESSIONAL SERVICES Geotechnical Engineering, Construction Material Testing, and Special Inspection	CONSTRUCTION <i>(If applicable)</i>
c. PROJECT OWNER City of Flagstaff	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$47,085	e. TOTAL COST OF PROJECT \$47,085	

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

Western Technologies provided a comprehensive geotechnical evaluation for a 12,000 square foot fire station east of downtown Flagstaff and also provided special inspection and construction materials testing during construction. The final report included a comprehensive geotechnical evaluation and construction material testing with recommendations for foundation and pavement design, excavation, seismic and site preparation.



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6. ADDITIONAL INFORMATION

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

Nondestructive Testing and Evaluation Services (NDT)

By definition, nondestructive testing and evaluation is the means by which materials and structures may be inspected without disruption or impairment of serviceability. Western Technologies' inspectors and technicians have successfully performed tens-of-thousands of nondestructive field and fabrication shop inspections and tests on structural steel components, connections, and assemblages. In addition, we have applied nondestructive techniques to manufactured components and castings looking for both surface and subsurface flaws. Western Technologies' personnel are certified for the tests and inspections that they perform by such agencies as ASNT, AWS and the ICC. Our NDT equipment is typically portable for use on job sites or in plant facilities, and calibrated in accordance with the applicable code or specification requirements. All test results are evaluated by our knowledgeable and experienced Level II or Level III technicians.

Western Technologies provides inspection and consultation consistent with the following codes and standards:

AWS ♦ API ♦ ASME ♦ ASTM ♦ AWWA ♦ AISC ♦ ASNT ♦ DOT ♦ IBC

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:	19%
b.	Percentage of Total Work Attributable to Non-Government Work:	81%

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

Signature:

Date: 12-18-15

Name: Todd Sayers

Title: Managing Director – Flagstaff



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(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:	Western Technologies Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	3480 South Dodge Boulevard
c. FIRM (OR BRANCH OFFICE) CITY:	Tucson
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85713

f. YEAR ESTABLISHED:	1960 (Branch), 1955 (Firm)
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(g1). OWNERSHIP - TYPE:	Corporation
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	N/A

h. POINT OF CONTACT NAME AND TITLE:	Randall D. Harris, PE
i. POINT OF CONTACT TELEPHONE NUMBER:	520-748-2262
j. POINT OF CONTACT E-MAIL ADDRESS:	r.harris@wt-us.com

k. NAME OF FIRM (If block 1a is a branch office):	Western Technologies, Inc.
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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	17	0
Civil Engineer	S	3	0
Construction Inspector	P	117	15
Construction Inspector	S	15	6
Environmental Engineer	P	6	0
Environmental Engineer	S	0	0
Environmental Scientist	P	24	3
Environmental Scientist	S	0	0
Geological Engineer	P	7	0
Geological Engineer	S	3	1
Geologist	P	7	0
Geologist	S	3	0
Project Manager	P	21	6
Project Manager	S	26	2
Soils Engineer	P	10	3
Soils Engineer	S	5	0
Technical / Analyst	P	2	0
Technical / Analyst	S	9	3
Other	P	54	3
Other	S		15
Total		265	30



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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)
237	Construction Materials Testing	5
3	Forensic Engineering	1
37	Mold Investigations	1
102	Phase I Environmental Assessments	3
2	Seismic Design and Studies	1
84	Soils and Geologic Studies; Foundations	2
125	Testing and Inspection Services	4

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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



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

a. NAME Randall D. Harris, PE	b. ROLE IN THIS CONTRACT Principal Contact Senior Geotechnical Engineer Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 15
d. LOCATION <i>(City and State)</i> Western Technologies, Inc. – Tucson, Arizona			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS: Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer—Arizona, California Geotechnical Engineer—California	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Main Terminal Apron Reconstruction, Tucson International Airport Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Harris performed a geotechnical evaluation for the reconstruction of portland cement concrete pavements surrounding the main terminal buildings. The project was divided into 23 areas constructed over 2 years. The project included a new fuel truck load rack within the secured area and protected by a new blast wall. Various structural pavement sections were utilized to support the aircraft and other airport traffic. FAA specifications were used for all portions of the projects. Mr. Harris was also the project manager of acceptance testing being performed on behalf of the airport.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Diamond Children’s Medical Center Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Harris was in responsible charge for special inspection of earthwork, Geopier construction, reinforced and light-weight concrete, epoxy bolt and dowel installation, welding, high-strength bolting, spray-applied fireproofing, and testing of soils and concrete during construction of a 211,000-square-foot, six-story tower adjacent to the existing hospital.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Empire Ranch Adobe Sampling and Testing Sonoita, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE The BLM is restoring historical ranch buildings constructed in phases over the last 100 years. The composition and strength of the various adobe block types was unknown. WT sampled non-structural blocks from within various attic areas, prepared and transported the blocks to our laboratory, and performed a series of tests to evaluate compressive strength, absorption, and unit weight. Mr. Harris was in charge of the field sampling and report review.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Unisource Energy Office Tower Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable) 2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Harris was in responsible charge of a new 150,000 square-foot, 8-story corporate headquarter facility with 3 stories below grade in downtown Tucson. This project sits on a two-acre site at Broadway and Scott. This project was awarded LEED Gold Certification. The construction is concrete on metal deck on composite steel beams bearing on steel columns. WT performed a geotechnical investigation and special inspection and materials testing services during construction. Shallow hazardous waste led to recommendations being developed for a mat foundation. Soil-nailed walls were used to excavate the basement. WT performed Special Inspection of soil nails during construction.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Justin M. Heinecke, PE, RG	b. ROLE IN THIS CONTRACT Senior Geotechnical Engineer Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 15	2. WITH CURRENT FIRM 14
d. LOCATION (<i>City and State</i>) Western Technologies, Inc. – Tucson, Arizona			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) BS: Geological Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Engineer—Arizona Registered Geologist—Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>)			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Pima County Fleet Services Facility Tucson, Arizona	(2) YEAR COMPLETED	
		<table border="1"> <tr> <td>Professional Services 2011</td> <td>Construction (if applicable) 2014</td> </tr> </table>	Professional Services 2011
Professional Services 2011	Construction (if applicable) 2014		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Heinecke performed a geotechnical evaluation for a new Fleet Services facility consisting of 78,000 square-feet of new buildings on a site of approximately 8 acres. The buildings were one- and two-story, slab-on-grade structures using metal-frame and masonry construction. The new facilities included asphalt concrete and portland cement concrete pavements for circulation roadways and parking for equipment, visitors and employees. During construction, buried construction debris and other fill materials were encountered. Mr. Heinecke provided supplemental recommendations for mitigating the fills.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Sierra Vista Regional Health Center Sierra Vista, Arizona	(2) YEAR COMPLETED	
		<table border="1"> <tr> <td>Professional Services 2013</td> <td>Construction (if applicable) 2015</td> </tr> </table>	Professional Services 2013
Professional Services 2013	Construction (if applicable) 2015		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Heinecke performed a geotechnical evaluation for a proposed healthcare complex rising four-stories and encompassing approximately 175,000-square-feet. The facility was constructed primarily of structural steel founded on spread footings with the floor slabs being lightweight structural concrete placed on composite metal decking. WT provided the geotechnical evaluation and recommendations for drainage, earthwork and excavation, as well as seismic conditions and corrosivity. WT also provided Special Inspection and materials testing services during construction.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Sixth / Cherry Recreational Field, University of Arizona Tucson, Arizona	(2) YEAR COMPLETED	
		<table border="1"> <tr> <td>Professional Services 2012</td> <td>Construction (if applicable) 2013</td> </tr> </table>	Professional Services 2012
Professional Services 2012	Construction (if applicable) 2013		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Heinecke performed a geotechnical evaluation for a \$3.5 million student recreation center field, which accommodates both intramural and club sports programs. The facility includes lighting, bleachers for up to 1500 spectators, restrooms, and tall barrier fencing. Challenges included shallow cemented soil that was resistant to infiltration of irrigation water.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Walden Grove High School Sahuarita, Arizona	(2) YEAR COMPLETED	
		<table border="1"> <tr> <td>Professional Services 2010</td> <td>Construction (if applicable) 2011</td> </tr> </table>	Professional Services 2010
Professional Services 2010	Construction (if applicable) 2011		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Heinecke provided a geotechnical evaluation for a new 110,000-square-foot facility, which included five, one- and two-story structures using metal frame masonry construction. The new high school was located within an area known for hydro-collapsible soils, so various foundation support recommendations were provided. WT provided Special Inspection and materials testing services during construction. After the school was open, Mr. Heinecke provided additional geotechnical recommendations for athletic facilities including bleachers, a press box, and a paved running track.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Stephen G. Collins, REPA	b. ROLE IN THIS CONTRACT Senior Environmental Scientist Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 30	2. WITH CURRENT FIRM 27

d. LOCATION *(City and State)* Western Technologies, Inc. – Tucson, Arizona

e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS: Wildlife and Fisheries Science	f. PROFESSIONAL TRAINING - REGISTRATIONS Registered Environmental Property Assessor—National AHERA Asbestos Building Inspector and Contractor Supervisor
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g. OTHER PROFESSIONAL QUALIFICATIONS *(Organizations, Awards, etc.)*
 Management of Hazardous Waste, 1990
 Regulation and Compliance for Underground Storage Tanks, 1990
 OSHA Hazardous Waste Operations and Emergency Response, 40 hours
 OSHA No. 500 Construction Outreach Program Trainer, 10 and 30 hours

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Asbestos Sampling, Davis-Monthan Air Force Base Tucson, Arizona	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Collins has performed asbestos sampling and analysis as part of an annual on-call contract extending over the past 20 years. Services include consultation with base civil engineer squadron members regarding mitigation and/or containment options.	<input checked="" type="checkbox"/> Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Limited Indoor Air Quality Assessment-Commercial Property Tucson, Arizona	(2) YEAR COMPLETED
		Professional Services 2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Collins performed a visual and air assessment of a commercial property for elevated levels of fungal spores in comparison to the outside environment. Prepared an environmental assessment report describing the types and relative concentrations of spores and provided recommendations for mitigation.	<input checked="" type="checkbox"/> Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase II Environmental Site Assessment, Automotive Dealership Tucson, Arizona	(2) YEAR COMPLETED
		Professional Services 2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Collins was the Project Principal for a Phase II ESA to assess the potential presence of regulated substances in connection with the oil/water separator and two sumps at the Site. Performed soil sampling and logging, data management, and report preparation. Able to document the separator and one sump were function property and had no releases.	<input checked="" type="checkbox"/> Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase I Environmental Site Assessment, Commercial Property Tucson, Arizona	(2) YEAR COMPLETED
		Professional Services 2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Mr. Collins was the Project Principal for a Phase I ESA that satisfied SBA environmental due diligence standards for a commercial property. The main Issue of concern was the presence of a septic system and the 40-years of light industrial use. Users of the septic system included a car repair facility, a carpentry business, and multiple general contracting firms.	<input checked="" type="checkbox"/> Check if project performed with current firm



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

a. NAME Patrick M. Cozzens, ICC, ACI	b. ROLE IN THIS CONTRACT Special Inspector Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 16	2. WITH CURRENT FIRM 16
d. LOCATION (<i>City and State</i>) Western Technologies, Inc. – Tucson, Arizona			
e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>)		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Certified Special Inspector for Structural Masonry, Reinforced Concrete, Prestressed Concrete, Spray-Applied Fireproofing: International Code Council Certified Transportation Construction Inspector and Concrete Field Testing Technician, Grade 1: American Concrete Institute			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Solar Canopy Construction, Tucson Unified School District Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Tucson Unified School District is a national leader in utilizing renewable power through construction of solar panels at its schools. WT performed geotechnical evaluations for the projects and recently completed materials testing and special inspections at 50 elementary and middle schools in two phases over the past 1-1/2 years. The project consisted of the construction of both parking and non-parking solar canopy structures at the schools. Mr. Cozzens was the project manager for testing and inspections.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (<i>City and State</i>) Pilot Travel Center #593 Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Cozzens performed project management services during the construction of a new 14,000 square-foot travel center that included eight diesel lanes and 12 gasoline lanes with high-speed pumps, two RV fuel lanes, and fast-food restaurants. Services included site earthwork, concrete foundations and slabs-on-grade, utility backfill, masonry construction, steel construction with welding and high-strength bolting, and structural pavement sections.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (<i>City and State</i>) Continental Elementary School Campus Redevelopment Pima County, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Cozzens was the Project Manager for campus improvements for modifications to an existing school consisting of 54,000 square feet of new classroom buildings, an administration building, cafeteria additions and renovation of 62,000 square feet of existing buildings. Also included were asphalt concrete paved areas for parking and driveways and rigid pavement sections for loading/unloading and dumpster areas. This project also included 1,484 solar panels covering 27,240 square feet on top of new carports that can generate 610,225 kilowatt hours of electricity a year, which meets 90 to 100 percent of the energy needs for the entire campus. WT performed a geotechnical evaluation and construction materials testing, special inspections, and nondestructive testing during construction.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (<i>City and State</i>) North Campus Infrastructure, University of Arizona Tucson, Arizona	(2) YEAR COMPLETED	
		Professional Services 2015	Construction (if applicable) 2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project consisted of a new 2-story brick addition to a central plant, new steam lines, chiller units, sewer and water lines, and an extension and modifications to an existing underground concrete utility tunnel. Performed construction materials testing during construction of soils and reinforced concrete. WT performed special inspection of concrete and masonry construction, steel construction, field welding, and post-installed anchors. Mr. Cozzens was the project manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Thomas N. Tiedemann, CWI, ICC, API653	b. ROLE IN THIS CONTRACT Special Inspector Senior Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 11	2. WITH CURRENT FIRM 11

d. LOCATION (*City and State*) Western Technologies, Inc. – Tucson, Arizona

e. EDUCATION (*DEGREE AND SPECIALIZATION*)
 f. PROFESSIONAL TRAINING - REGISTRATIONS

g. OTHER PROFESSIONAL QUALIFICATIONS (*Organizations, Awards, etc.*)
 Certified Welding Inspector: American Welding Society
 Certified Master Special Inspector for Structural Masonry, Reinforced Concrete, Prestressed Concrete, Structural Steel and Bolting, Structural Welding, and Spray-Applied Fireproofing: International Code Council
 Certified Transportation Construction Inspector and Concrete Field Testing Technician, Grade 1: American Concrete Institute
 Above Ground Storage Tank Inspector: American Petroleum Institute

H. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Three Million Gallon Storage Tank, Apache Nitrogen Benson, Arizona	2015	2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Tiedemann performed project management and nondestructive testing services of the existing tank for information to assist in the evaluation of the tank integrity. Services included visual weld inspection, magnetic particle testing, radiography, and ultrasonic thickness testing of welded joints.	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	Quality Control Inspection Services, Smyth Industries Tucson, Arizona	2010	2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Tiedemann performed inspection and nondestructive testing of newly-manufactured pressure vessels and water tanks from 1,000 gallon to over 1,000,000 gallons. Applied inspections from various codes including AWWA, API, and ASME. Worked with client to develop welding procedures for various tank materials. Services have been provided over the last 5 years.	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	On-Call Structural Steel Fabrication Inspections, Arizona Department of Transportation, Various Sites, Arizona	2009	2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Tiedemann performed project management services during visual examination and nondestructive testing services for the inspection of structural steel fabricated for projects on an as-needed basis. This included fabrication shop inspections, verification of all welding procedures, and inspection of welds using visual, ultrasonic and radiographic examinations.	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	Sierra Vista Regional Health Center Sierra Vista, Arizona	2013	2015
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Tiedemann performed special inspections for a proposed healthcare complex rising four-stories and encompassing approximately 175,000-square-feet. The facility was constructed primarily of structural steel founded on spread footings with the floor slabs being lightweight structural concrete placed on composite metal decking. WT provided the geotechnical evaluation and recommendations for drainage, earthwork and excavation, as well as seismic conditions and corrosivity. WT provided Special Inspection and materials testing services during construction including field welding, high strength bolting, and load testing of post-installed anchors.	<input checked="" type="checkbox"/> 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> Main Terminal Apron Reconstruction, Tucson International Airport Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Tucson Airport Authority Tucson, Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT's Budget = \$388,898	e. TOTAL COST OF PROJECT WT's Total Billed = \$331,834
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies performed a geotechnical evaluation for the reconstruction of portland cement concrete pavements surrounding the main terminal buildings. The project was divided into 23 areas constructed over 2 years. The project included a new fuel truck load rack within the secured area and protected by a new blast wall. Various structural pavement sections were utilized to support the aircraft and other airport traffic. FAA specifications were used for all portions of the projects. During construction, WT provided Acceptance Testing (or Quality Assurance Testing) for the owner to ensure that all soils and concrete used for the project satisfied project requirements. WT also provided Quality Control testing for the fuel system subcontractor by providing radiography of each weld used for the new fuel hydrant distribution system. Tests performed on site and in our laboratory included:

- ASTM C 29 Unit Weight of Aggregate
- ASTM C 31 Making and Curing Concrete Test Specimens in the Field
- ASTM C 39 Compressive Strength of Cylindrical Concrete Specimens
- ASTM C 70 Surface Moisture in Fine Aggregate
- ASTM C 78 Test for Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)
- ASTM C 88 Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
- ASTM C 117 Materials Finer than 75um (No. 200) Sieve in Mineral Aggregates by Washing
- ASTM C 131 Resistance to Abrasion of Small Size Coarse Aggregate by Use of the Los Angeles Machine
- ASTM C 136 Sieve or Screen Analysis of Fine and Coarse Aggregate
- ASTM C 143 Test for Slump of Hydraulic Cement Concrete
- ASTM C 172 Sampling Freshly Mixed Concrete
- ASTM C 173 Test for Air Content of Freshly Mixed Concrete by the Volumetric Method
- ASTM C 174 Measuring Thickness of Concrete Elements Using Drilled Concrete Cores
- ASTM C 231 Test for Air Content of Freshly Mixed Concrete by the Pressure Method
- ASTM C 535 Test for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine
- ASTM C 1077 Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction And Criteria for Laboratory Evaluation
- ASTM D 75 Sampling Aggregate
- ASTM D 698 Moisture-Density Relations of Soils and Soil - Aggregate Mixtures Using 5.5-lb (2.49-kg) Rammer and 12-in (305mm) Drop
- ASTM D 1556 Density of Soil in Place by the Sand - Cone Method
- ASTM D 1557 Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-lb (4.5kg) Rammer and 18 in (457 mm) Drop
- ASTM D 2922 Density of Soil and Soil-Aggregate in Place by Nuclear Methods
- ASTM D 3017 Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods
- ASTM D 3665 Random Sampling of Paving Materials
- ASTM D 4791 Test Method for Flat or Elongated Particles in Coarse Aggregate
- ASTM E 178 Dealing With Outlying Observations

During construction, aggregate quality deficiencies were noted in the surface of the portland cement concrete paving. WT engineers assisted the owner and design team in identifying the source of the deficient aggregate, evaluating the potential impacts on the project, and developing a solution. WT provided series of tests and observations to document the situation.



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Phoenix, Arizona 85007**

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> Pima County Fleet Services Facility Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Pima County Procurement and Pima County Finance and Risk Management Tucson, Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT's Budget = \$48,941	e. TOTAL COST OF PROJECT WT's Total Billed = \$67,183
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies performed a geotechnical evaluation for a new Fleet Services facility consisting of 78,000 square-feet of new buildings on a site of approximately 8 acres. The buildings were one- and two-story, slab-on-grade structures using metal-frame and masonry construction. The new facilities included asphalt concrete and portland cement concrete pavements for circulation roadways and parking for equipment, visitors and employees. Following issuance of the geotechnical evaluation report, Pima County requested that WT perform additional analyses to confirm structural pavement section recommendations. The County provided a spreadsheet describing their equipment inventory. WT converted that data to equivalent 18-kip single axle loads and evaluated the structural pavement section requirements for a 20-year design life. An addendum to the report was issued presenting the findings of our analyses and supplemental recommendations for design and construction.

During construction, WT provided Quality Assurance Testing for the owner to ensure that the construction materials used for the project satisfied project requirements. Special Inspection services were provided for the earthwork, foundation excavations, reinforced concrete, and masonry construction.

During construction, buried construction debris and other fill materials were encountered. WT provided both geotechnical and environmental engineering analyses to evaluate the materials and provided supplemental recommendations for mitigating the fills. Some fill soils laden with bituminous substances were excavated and disposed of off site. Clean fill materials were processed and used as engineered fill during backfill operations.

It may be noted above that WT's final billing exceeded the original estimated costs. This difference was due primarily to the unanticipated conditions encountered during construction. WT project managers obtained authorization from the client through the change order process in order to proceed with the additional services required.



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP016-00005912

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

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) High-rise Downtown Hotel Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Private Entity Tucson, Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT's Budget = \$19,770	e. TOTAL COST OF PROJECT WT's Total Billed = \$19,770
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies assisted client with a Leaking Underground Storage Tank (LUST) site characterization. A portion of the site was historically occupied by a gasoline service station from 1940 to 1953. The USTs were removed in 2003; however, during an archeological survey of the site, prior to development of the site for a hotel, a 1000-gallon UST was discovered. Subsequent assessments by WT determined this UST had leaked regulated substances to the soil and perhaps to groundwater 80 feet below the site. Groundwater impacts are typically evaluated by the installation of monitoring well(s); however, the installation and sampling of a groundwater monitoring well is expensive and would take several days to accomplish. To save time and money, WT used a Hydropunch™ tool, which quickly and inexpensively collected representative groundwater samples without installation of a groundwater monitoring well.

The groundwater testing showed regulated substances had not impacted groundwater. A risk exposure assessment, via a soil-gas survey, was performed to determine if an inhalation exposure was possible from the identified soil contamination. The risk assessment showed no inhalation risks and the Arizona Department of Environmental Quality granted full case closure with no restriction for the development of the site as a hotel.



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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> FY11 AMARG Hangar, Davis-Monthan Air Force Base Tucson, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER US Army Corps of Engineers Tucson, Arizona	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT WT's Budget = \$140,000	e. TOTAL COST OF PROJECT WT's Total Billed = \$132,567
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Western Technologies was part of a design-build team for a new 76,750-square-foot hangar that was recently completed for the 309th Aircraft Maintenance and Regeneration Group (AMARG) at the Davis-Monthan Air Force Base (DM). The massive, metal-framed structure is 84 feet high and is capable of housing two C-130 or two KC-135 aircraft at the same time. Designed to be LEED Gold, it is now the largest hanger at DM. Two-story office spaces inside the structure were constructed using masonry walls and conventional foundations. Aprons and access drives utilized both portland cement and asphalt concrete pavements. WT performed a geotechnical engineering evaluation for the design-build project and followed through with Special Inspection and materials testing services during construction. The construction cost was approximately \$25M.



ATTACHMENT I – General Qualifications

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6. ADDITIONAL INFORMATION

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

WESTERN TECHNOLOGIES INC.

Nondestructive Testing and Evaluation Services (NDT)

By definition, nondestructive testing and evaluation is the means by which materials and structures may be inspected without disruption or impairment of serviceability. **Western Technologies'** inspectors and technicians have successfully performed tens-of-thousands of nondestructive field and fabrication shop inspections and tests on structural steel components, connections, and assemblages. In addition, we have applied nondestructive techniques to manufactured components and castings looking for both surface and subsurface flaws. **Western Technologies'** personnel are certified for the tests and inspections that they perform by such agencies as ASNT, AWS and the ICC. Our NDT equipment is typically portable for use on job sites or in plant facilities, and calibrated in accordance with the applicable code or specification requirements. All test results are evaluated by our knowledgeable and experienced Level II or Level III technicians.

Western Technologies provides inspection and consultation consistent with the following codes and standards:

AWS ♦ API ♦ ASME ♦ ASTM ♦ AWWA ♦ AISC ♦ ASNT ♦ DOT ♦ IBC

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:	14%
b.	Percentage of Total Work Attributable to Non-Government Work:	86%

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

Signature: 

Date: December 21, 2015

Name: Randall D. Harris, PE

Title: Managing Director –Tucson