

December 30, 2014  
Proposal No. 12-00096

Arizona Department of Administration  
Arizona State Procurement Office  
100 North 15th Avenue, Suite 201  
Phoenix, Arizona 85007

Subject: **Professional Services Annual Request for Qualifications  
Solicitation # ADSP015-00004729**

Dear Selection Team Members:

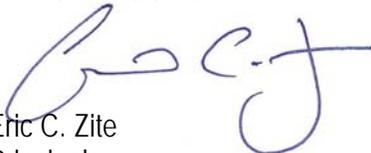
Ninyo & Moore Geotechnical and Environmental Sciences Consultants is pleased to submit this Statement of Qualifications (SOQ) as an expression of our interest to provide professional consulting engineering services to the Arizona Department of Administration.

Ninyo & Moore will bring the following benefits to the Arizona Department of Administration.

- ☑ **Response:** Ninyo & Moore is willing and able to respond quickly to virtually any need. We are quite accustomed to responding on little to no notice with the ability to staff a project with the properly qualified personnel.
- ☑ **History:** Ninyo & Moore was established over 28 years ago to help clients develop and implement innovative solutions to geotechnical and environmental challenges. Ninyo & Moore has been providing services to the Phoenix metropolitan area since 1998.
- ☑ **Quality Assurance/Quality Control:** Ninyo & Moore's geotechnical, environmental, and construction materials testing and inspection consulting services are rendered in strict compliance to the firm's rigorous Quality Assurance/Quality Control program, which goes beyond the expectations of the industry. Ninyo & Moore's quality assurance program is designed to be flexible while ensuring that the data is of sufficient and appropriate quality to fulfill project requirements. Our field and laboratory staff professionals participate in technician certification programs such as NICET, ACI, ATTI, ICC and AWS.
- ☑ **Laboratories:** Ninyo & Moore's Phoenix office is a fully equipped and accredited in-house testing laboratory and offers full-service field and laboratory services for geotechnical, environmental, and soils and materials testing projects. Our Phoenix office laboratory has been approved by the City of Phoenix, ADOT, AASHTO, and the U.S. Army Corps of Engineers and routinely participates in AMRL and CCRL laboratory proficiency programs.

Thank you for your consideration of our qualifications. We look forward to a favorable review of our qualifications and discussing our future role with you.

Sincerely,  
**NINYO & MOORE**



Eric C. Zite  
Principal



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

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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:	Ninyo & Moore
b. FIRM (OR BRANCH OFFICE) STREET:	3202 East Harbour Drive
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85034
f. YEAR ESTABLISHED:	1986
(g1). OWNERSHIP - TYPE:	Type S Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	Minority-Owned Business
h. POINT OF CONTACT NAME AND TITLE:	Eric C. Zite / Principal
i. POINT OF CONTACT TELEPHONE NUMBER:	602/243-1600
j. POINT OF CONTACT E-MAIL ADDRESS:	<a href="mailto:ezite@ninyoandmoore.com">ezite@ninyoandmoore.com</a>
k. NAME OF FIRM (If block 1a is a branch office):	





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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)
10	Airports	5
10	Bridges	5
45	Commercial Buildings	5
135	Construction Materials Testing	8
10	Dams, Dikes, Levees	4
20	Educational Facilities	5
25	Forensic Engineering	3
5	Garages, Parking	4
30	Highways, Streets, Airfield Paving, Parking Lots	6
10	Hospitals, Medical Facilities	5
1	Hotels	1
10	Housing, Residential	1
20	Pipelines	5
165	Phase I Environmental	5
4	Prisons & Correctional Facilities	4
5	Railroad, Rapid Transit	5
10	Recreation Facilities	2
20	Seismic Design and Studies	7
140	Soils and Geologic Studies	8
150	Testing & Inspection Services	8
2	Tunnels	1
15	Transportation	1
1	Ground Water	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.)

NAME <b>Steven D. Nowaczyk</b>	b. ROLE IN THIS CONTRACT <b>Principal Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>24</b>	2. WITH CURRENT FIRM <b>15</b>
a. LOCATION (City and State) <b>Phoenix, AZ</b>			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Geotechnical Engineering, 1994, University of Michigan B.S., Civil Engineering, 1990, Michigan State University		f. PROFESSIONAL TRAINING - REGISTRATIONS PE 34866 (Arizona) / PE 19584 (New Mexico) / PE 42018 (Colorado) / PE 42103 (Michigan) / NCEES 36667	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers, American Society of Professional Engineers, Association of State Dam Safety Officials			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	<b>White Tanks FRS No. 4 Rehabilitation, Maricopa County, Arizona</b>	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the design of the White Tanks Flood Retarding Structure (FRS) No. 4 rehabilitation project within western Maricopa County, Arizona. The purpose of the project was to repair documented deficiencies associated with the RFS including horizontal and transverse cracking through the FRS embankment, removal and replacement of principal outlets so that they meet current design standards, embankment modifications to accommodate increased floodpool storage, re-grading existing floodpool to eliminate existing dead-storage areas and improvements to the existing auxiliary spillways. Responsibilities included overseeing all background review, field exploration, engineering analyses, design development, preparation of construction drawings, preparation of construction specifications and preparation of construction cost estimates. Design submittals were required and the 30%, 60%, 90% and 100% levels. In addition, NRSC and ADWR reviewed and commented on each design submittal. <b>Ninyo &amp; Moore Fees: \$3,250,000.00 +</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	<b>Arizona State University, Arizona Center for Law and Society Building, Phoenix, Arizona</b>	Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Principal for a geotechnical evaluation for the ASU Center for Law and Society Building project. Responsible for technical oversight during project activities consisting of a geologic reconnaissance; subsurface exploration; laboratory testing; and preparation of a report presenting findings, conclusions, and recommendations regarding the design and construction of the project. <b>Ninyo &amp; Moore Fees: \$7,200</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	<b>Maryland Avenue HOV Ramps and Ramps II, Glendale, Arizona</b>	Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Principal for a geotechnical evaluation for improvements associated with the Maryland Avenue HOV Ramps project. This project added HOV ramps within the median area along the SR 101L both north and south of Maryland Avenue to provide access to the existing Maryland Avenue underpass bridge. Responsible for technical oversight and staff direction during project activities. <b>Ninyo &amp; Moore Fees: \$40,500</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	<b>Buckeye FRS 1, 2 and 3, On-Call Structures Assessment, Buckeye, Arizona</b>	Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ninyo & Moore was retained as a subconsultant to Tetra Tech, Inc. to provide geotechnical engineering, geological and materials testing services during the individual structural assessment, and alternatives analysis and risk assessment/risk analysis phases of a contract with the Flood Control District of Maricopa County (District). Some of the District's dams may have deficiencies whose origin is, in part, geotechnically-related. These deficiencies may be related to choice of construction materials, construction methods, erosion, piping or seepage, phenomena such as land subsidence and earth-fissuring or other factors not readily apparent. Our services included performance of a geotechnical evaluation, site inspection visits, and review of as-built documents for Buckeye FRS Nos. 1, 2 and 3. <b>Ninyo &amp; Moore Fees: \$728,000+</b>	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

The Marana Center, Marana, Arizona

(2) YEAR COMPLETED

Professional Services  
2014

Construction (if applicable)

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

Check if project performed with current firm

5.

*Project Principal Engineer performing a geotechnical evaluation for the Phase I Infrastructure Design for the Marana Center project. The project includes the design and construction of the first phase of a new, approximately 160 acre retail shopping center and auto mall known as the Marana Center. The general project elements generally consist of a drainage channel; a buried drainage structure; an internal collector roadway with water and storm drain; sewer trunks; and water main. The project involved time constraints, sensitive cultural areas, multiple stakeholders and market conditions. The client retained Ninyo & Moore to assist in every phase of the design from initial kick-off to working with the selected CMAR contractor to determine constructability. Based upon our geotechnical engineering services provided in the initial Phase I of the above-referenced project, Ninyo & Moore has been awarded the construction materials testing services contract for the design and construction of the Marana Center and anticipate project completion in the Fall of 2015. Ninyo & Moore Fees: \$18,100*



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

b. NAME Marek J. Kasztalski	b. ROLE IN THIS CONTRACT <b>Geotechnical Engineer</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>37</b>	2. WITH CURRENT FIRM <b>7</b>
d. LOCATION (City and State) Tucson, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, 1978, Warsaw Technical University		f. PROFESSIONAL TRAINING - REGISTRATIONS PE 44704 (Arizona) / PMP 1203712 / LEED Accredited Professional	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Society of Civil Engineers, Arizona Society of Professional Engineer, Project Management Institute, Society of Mining, Metallurgy and Exploration			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>Davis-Monthan Maintenance Storage Facility, Tucson, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for a geotechnical evaluation for the Aerospace Ground Equipment Maintenance Storage Facility located within the Davis-Monthan Air Force Base in Tucson, Arizona. Responsible for performing geologic research and a geotechnical exploration, which included drilling exploratory borings and field electrical resistivity surveys; conducting laboratory testing of representative samples; and preparation of a report presenting findings, conclusions, and geotechnical recommendations. The project included the design and construction of a new Aerospace Ground Equipment Maintenance Storage Facility, an open storage area, including the hardstand (paved AC and PCC storage areas excluding traffic lanes) and service traffic lanes, underground utilities, parking areas, and driveways. The project followed the specifications contained in the Unified Facility Criteria (UFC) Technical Manuals, and the City of Tucson and Pima County Standard Specifications for Public Improvements. <b>Ninyo &amp; Moore Fees: \$17,300</b>		
2.	(1) TITLE AND LOCATION (City and State) <b>The Marana Center, Marana, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager responsible for performing a geotechnical evaluation for the Phase I Infrastructure Design for the Marana Center project. The project includes the design and construction of the first phase of a new, approximately 160 acre retail shopping center and auto mall known as the Marana Center. The general project elements generally consist of a drainage channel; a buried drainage structure; an internal collector roadway with water and storm drain; sewer trunks; and water main. The project involved time constraints, sensitive cultural areas, multiple stakeholders and market conditions. The client retained Ninyo & Moore to assist in every phase of the design from initial kick-off to working with the selected CMAR contractor to determine constructability. Based upon our geotechnical engineering services provided in the initial Phase I of the above-referenced project, Ninyo & Moore has been awarded the construction materials testing services contract for the design and construction of the Marana Center and anticipate project completion in the Fall of 2015. <b>Ninyo &amp; Moore Fees: \$18,100</b>		
3.	(1) TITLE AND LOCATION (City and State) <b>Smelter Expansion, Miami, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager performing geotechnical engineering services for the design phase of the smelter expansion project within a facility in Claypool, Arizona. Responsibilities included performing a geotechnical investigation, implementation of a site investigation program and interpretation of results to provide geotechnical recommendations for the foundation options. Completion of appropriate MSHA training and site specific safety training as well as review of available topographic information, soil surveys, geologic literature, and aerial photographs of the project area; geologic site reconnaissance; coordination and oversight of drilling a total of 32 exploratory borings to depths ranging from 30 to 100 feet deep; laboratory testing and analysis; field electrical resistivity tests; field and laboratory thermal resistivity tests and preparation of a geotechnical report. Extensive coordination was needed to clear areas for utilities prior to drilling and to gain access to drill locations at times when plant operation would not be impacted. Several different drill rigs from truck mounted to track mounted were used to drill in limited access areas. <b>Ninyo &amp; Moore Fees: \$133,300</b>		
4.	(1) TITLE AND LOCATION (City and State) <b>Agua Fria Drainage Improvements, Prescott Valley, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the geotechnical evaluation for the design and construction of the for the proposed Agua Fria Floodplain Channelization and Santa Fe Loop Road project in Prescott Valley, Arizona. The planned improvements included channelization of a section of the Agua Fria floodplain, roughly from Cattletrack Road at the west end and construction of Santa Fe Loop Road, with associated drainage improvements within the project area. Robert Road was planned to be reconstructed within the channelization limits. The proposed improvements generally involved installation of a 200 feet to 400 feet wide and		



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6 to 10 feet deep drainage channel with a 1 foot deep and approximately 20 feet wide flat bottom low flow channel. The fieldwork for this project included drilling, logging, and sampling six exploratory borings to depths of about 15 to 20 feet below ground surface. The extensive laboratory testing program included index testing of subsurface soils consolidation/response to wetting, proctor test, and corrosivity tests. The geotechnical and materials/pavement reports were prepared in accordance with MAG and the Town of Prescott Valley standards. New asphaltic concrete and Portland cement concrete pavement sections were developed for the proposed Santa Fe Loop Road and the existing Robert Road crossing of Agua Fria. **Ninyo & Moore Fees: \$17,100**

(1) TITLE AND LOCATION (City and State)

**Tucson Electric Power Concentrated Solar Project, Tucson, Arizona**

(2) YEAR COMPLETED

Professional Services  
2012

Construction (if applicable)

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

Project Manager for the geotechnical evaluation for the design and construction of the Concentrated Solar Project at the TEP power plant in Tucson, County, Arizona. The project consisted of the design and construction of a new collector pipeline above or near existing ground. The structures along the pipeline alignment are a combination of steel pipe rack structures spanning 20 to 40 feet and supported either by isolated pad/mat foundations or on drilled shafts. At areas where the pipeline was near existing ground, shallow pedestal type foundations to support the pipeline and cable tray were used. The field exploration program included borings in difficult access areas due to existing power plant facilities and underground utilities. The extensive laboratory testing program included index testing of subsurface soils, direct shear test, consolidation/response to wetting, proctor test, and corrosivity tests, and preparation of a geotechnical report with recommendations for the design and construction of the improvements, including earthwork and grading operations, allowable bearing pressures and anticipated settlement/movements of shallow and deep foundations, slab-on-grade, moisture protection of structures, and soil corrosivity. **Ninyo & Moore Fees: \$16,600**



Check if project performed with current firm

5.



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

c. NAME <b>Craig Rees</b>	b. ROLE IN THIS CONTRACT <b>Construction Services Manager</b>	c. YEARS EXPERIENCE	
		1. TOTAL <b>17</b>	2. WITH CURRENT FIRM <b>14</b>
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering, 2011, Arizona State University A.A., Mechanical Engineering, 1996, BYU Idaho		f. PROFESSIONAL TRAINING - REGISTRATIONS Radiation Safety Training for Moisture/Density Gauge Operators Certification	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) American Concrete Institute, Arizona Rock Products Association			

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION (City and State) <b>Peoria Sports Complex, Peoria, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Construction Services Manager responsible for providing technical oversight and staff direction during the geotechnical observation, materials testing, and quality control services for construction of the Peoria Sports Complex. Improvements included approximately 57,000 square feet of building area and 5,000 square feet of exterior improvements for both the San Diego Padres and Seattle Mariners Clubhouses. Site work included temporary crane pad foundations, concrete slabs and sidewalks, with minor asphaltic concrete paving, and curb and gutter. <b>Ninyo &amp; Moore Fees: \$54,500</b></i>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) <b>Pine Springs Roadway Construction, Pine Springs, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) 2013-2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Construction Services Manager responsible for providing technical oversight and staff direction for construction testing and inspection for 12 miles of new roadway construction on the Navajo Nation for the Bureau of Indian Affairs. Responsible for the testing of soils, concrete and asphalt. The project also included utilization of a laboratory trailer in a remote location. <b>Ninyo &amp; Moore Fees: \$525,000</b></i>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) <b>Solana Generating Station, Gila Bend, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Construction Services Manager responsible for providing technical support and oversight during construction materials testing and inspection services for the Solana Generating Station. The Solana Generating Station is a solar power plant, planned to begin operation in 2013, located near Gila Bend, Arizona. It has a total capacity of 280 megawatts (MW). Ninyo &amp; Moore's services included observation and testing services during mass grading operations, concrete sampling and testing, and various laboratory testing of soils and aggregate materials. <b>Ninyo &amp; Moore Fees: \$249,000</b></i>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) <b>PSHIA Salt River Bank Extension, Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Construction Services Manager responsible for providing technical support and oversight during CQA materials testing for the Runway Safety Area improvements at the East end of Runway 7R/25L. The project included construction of 3000 feet of Cement Stabilized Alluvium on the North Bank, 2,300 feet of South Bank improvement, regrading of the Salt River Channel bottom, 1,700 feet of 84-inch RGRCP, and rein-forced-concrete foundations for new MALSR and Localizer NAVAIDS and equipment shelters. <b>Ninyo &amp; Moore Fees: \$82,100</b></i>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) <b>DVT Airfield Safety Enhancement Program, Phoenix, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <i>Construction Services Manager responsible for providing technical support and oversight during construction materials testing services for the DVT Airfield Safety enhancement project under our City of Phoenix on-call contact. Services included observation, testing, and documentation of soils, concrete, and asphalt. The project consisted of infield improvements including lime stabilization, storm drain installation, and paving of service roads. <b>Ninyo &amp; Moore Fees: \$151,000</b></i>		
		<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.)*

<p>f. NAME <b>Kirstin L. Tvedten</b></p>	<p>b. ROLE IN THIS CONTRACT <b>Project Manager/Engineer</b></p>	<p>c. YEARS EXPERIENCE</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">1. TOTAL 8</td> <td style="width:50%; text-align: center;">2. WITH CURRENT FIRM 5</td> </tr> </table>		1. TOTAL 8	2. WITH CURRENT FIRM 5
1. TOTAL 8	2. WITH CURRENT FIRM 5				
<p>d. LOCATION <i>(City and State)</i> Phoenix, Arizona</p>					
<p>e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>  B.S., Civil Engineering, 2005, University of Wisconsin</p>		<p>f. PROFESSIONAL TRAINING - REGISTRATIONS <i>PE 53421 (Arizona) / ACI Concrete Field Testing Grade 1 / ACI Concrete Strength Testing Technician / ATTI Field Certification / ATTI Asphalt Certification / ATTI Soils/Aggregate Level I Certification / Radiation Safety Training for Moisture/Density Gauge Operators Certification</i></p>			
<p>g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i> Arizona Society of Civil Engineers</p>					

**H. RELEVANT PROJECTS**

<b>1.</b>	<p>(1) TITLE AND LOCATION <i>(City and State)</i> <b>Peoria Sports Complex, Peoria, Arizona</b></p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Professional Services 2013</td> <td style="width:50%;">Construction (if applicable)</td> </tr> </table>		Professional Services 2013	Construction (if applicable)
	Professional Services 2013	Construction (if applicable)			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager during geotechnical observation, materials testing, and quality control services during construction of the Peoria Sports Complex Improvements that included approximately 57,000 square feet of building area and 5,000 square feet of exterior improvements for both the San Diego Padres and Seattle Mariners Clubhouses. The buildings consisted of 2-story tilt-panel and masonry structures on shallow foundations. Site work included temporary crane pad foundations, concrete slabs and sidewalks, with minor asphaltic concrete paving, and curb and gutter. Ninyo &amp; Moore Fees: \$54,500</i></p>		<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>			
<b>2.</b>	<p>(1) TITLE AND LOCATION <i>(City and State)</i> <b>Vekol Regional Park Infrastructure Improvements, Maricopa, Arizona</b></p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Professional Services 2014</td> <td>Construction (if applicable)</td> </tr> </table>		Professional Services 2014	Construction (if applicable)
	Professional Services 2014	Construction (if applicable)			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Engineer and ADOT S7 level Quality Control Technician (QCT). The QCT was on-site during all construction activities, observed the work performed, prepared as-built project plans, performed inspections, and sampled materials. The Project Engineer reviewed submittals, held weekly construction meetings, verified that the work was performed in accordance with the approved ADOT Permit Plans and Specifications, and finalized as-built project plans and project documents for submission to ADOT. Ninyo &amp; Moore provided additional QCT's as needed to perform testing and sampling services. The project consisted of road widening and drainage improvements on State Route 347 and Martin Luther King Jr. Boulevard. Ninyo &amp; Moore Fees: \$95,600</i></p>		<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>			
<b>3.</b>	<p>(1) TITLE AND LOCATION <i>(City and State)</i> <b>Pine Springs Roadway Construction, Pine Springs, Arizona</b></p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Professional Services 2013</td> <td>Construction (if applicable)</td> </tr> </table>		Professional Services 2013	Construction (if applicable)
	Professional Services 2013	Construction (if applicable)			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager responsible for performing construction testing and inspection for 12 miles of new roadway construction on the Navajo Nation for the Bureau of Indian Affairs. Responsible for the testing of soils, concrete and asphalt. The project also included utilization of a laboratory trailer in a remote location. Ninyo &amp; Moore Fees: \$525,000</i></p>		<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>			
<b>4.</b>	<p>(1) TITLE AND LOCATION <i>(City and State)</i> <b>Brooks &amp; Lindsay Pump Station Improvements, Mesa, Arizona</b></p>	<p>(2) YEAR COMPLETED</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Professional Services 2011</td> <td>Construction (if applicable)</td> </tr> </table>		Professional Services 2011	Construction (if applicable)
	Professional Services 2011	Construction (if applicable)			
<p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Manager and Laboratory Manager during construction materials testing services for 2 pump stations in Mesa, Arizona. Responsible for in-situ nuclear density-gauge testing, and sampling and testing of concrete, masonry grout and asphalt. Oversaw laboratory testing services which included proctors, sieves, Atterberg limits, compressive strength of concrete and grout, maximum theoretical specific gravity, gyratory compaction, and oil/gradation of asphalt. The project consisted of the construction of new chlorination buildings, new pipelines, equipment pads, 8-foot high perimeter site-walls, and various site work that included soils, concrete, and asphalt testing. Ninyo &amp; Moore Fees: \$27,000</i></p>		<p><input checked="" type="checkbox"/> Check if project performed with current firm</p>			



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Phoenix, Arizona 85007

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

DVT Airfield Safety Enhancement Program, Phoenix, Arizona

(2) YEAR COMPLETED

Professional Services  
2011

5.

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

*Project Manager and Laboratory Manager during construction materials testing services for the DVT Airfield Safety enhancement project under our City of Phoenix on-call contact. Services included observation, testing, and documentation of soils, concrete, and asphalt. The project consisted of infield improvements including lime stabilization, storm drain installation, and paving of service roads. Ninyo & Moore Fees: \$151,000*

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.)*

<p><b>g. NAME</b> <b>Daniel C. Rosenbalm</b></p>	<p><b>b. ROLE IN THIS CONTRACT</b> <b>Project Manager/Engineer</b></p>	<p align="center"><b>c. YEARS EXPERIENCE</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;">1. TOTAL 2</td> <td style="width:50%; text-align: center;">2. WITH CURRENT FIRM 2</td> </tr> </table>		1. TOTAL 2	2. WITH CURRENT FIRM 2
1. TOTAL 2	2. WITH CURRENT FIRM 2				
<p><b>d. LOCATION</b> <i>(City and State)</i> Phoenix, Arizona</p>		<p><b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b></p> <p align="center"><i>PE Arizona</i></p>			
<p><b>e. EDUCATION</b> <i>(DEGREE AND SPECIALIZATION)</i></p> <p><i>Ph.D., Geotechnical Engineering, 2013, Arizona State University</i> <i>M.S., Geotechnical Engineering, 2011, Arizona State University</i> <i>B.S., Civil, and Environmental Engineering, 2009, Arizona State University</i></p>		<p><b>g. OTHER PROFESSIONAL QUALIFICATIONS</b> <i>(Organizations, Awards, etc.)</i></p>			

**H. RELEVANT PROJECTS**

<b>1.</b>	<p><b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>White Tanks Flood Retarding Structure No. 4 Rehabilitation Project, Maricopa County, Arizona</b></p>	<p><b>(2) YEAR COMPLETED</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border: 1px solid black;">Professional Services Ongoing</td> <td style="width:50%; border: 1px solid black;">Construction (if applicable)</td> </tr> </table>		Professional Services Ongoing	Construction (if applicable)
	Professional Services Ongoing	Construction (if applicable)			
<p><b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> <i>Senior Staff Engineer assisting with the design of the White Tanks Flood Retarding Structure (RFS) No. 4 rehabilitation project within western Maricopa County, Arizona. The purpose of the project was to repair documented deficiencies associated with the RFS including horizontal and transverse cracking through the FRS embankment, removal and replacement of principal outlets so that they meet current design standards, embankment raising to accommodate increased floodpool storage, re-grading existing floodpool to eliminate existing dead-storage areas and improvements to the existing auxiliary spillways. Responsibilities included assisting with overseeing field exploration, engineering analyses, design development, and preparation of construction cost estimates. Ninyo &amp; Moore Fees: \$3,250,000.00 +</i></p>	<p align="center"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
<b>2.</b>	<p><b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>Buckeye FRS No. 1 Rehabilitation Project, Buckeye, Arizona</b></p>	<p><b>(2) YEAR COMPLETED</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border: 1px solid black;">Professional Services Ongoing</td> <td style="width:50%; border: 1px solid black;">Construction (if applicable)</td> </tr> </table>		Professional Services Ongoing	Construction (if applicable)
	Professional Services Ongoing	Construction (if applicable)			
<p><b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> <i>Senior Staff Engineer responsible for assisting with geotechnical engineering services for the design of the Buckeye Flood Retarding Structure No. 1 Rehabilitation project. The purpose of the project was to repair documented deficiencies associated with the FRS including horizontal and transverse cracking through the FRS embankment, removal and replacement of irrigation outlets so that they meet current design standards, embankment raising to accommodate floodpool storage, and improvements to the existing auxiliary spillway. Responsibilities included assisting with overseeing field exploration, engineering analyses, and design development. Ninyo &amp; Moore Fees: \$728,000</i></p>	<p align="center"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
<b>3.</b>	<p><b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>Casa Grande Elementary School District No. 4, Casa Grande, Arizona</b></p>	<p><b>(2) YEAR COMPLETED</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border: 1px solid black;">Professional Services 2013</td> <td style="width:50%; border: 1px solid black;">Construction (if applicable)</td> </tr> </table>		Professional Services 2013	Construction (if applicable)
	Professional Services 2013	Construction (if applicable)			
<p><b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> <i>Senior Staff Engineer during a preliminary geotechnical evaluation pertaining to the Desert Willow Elementary School in Casa Grande, Arizona. Responsible for assessing the flooring distress in the interior of the building, as well as evaluating the asphalt concrete cracking in the parking lot, parent drop-off lane, and the bus loop/fire lane. Performed a visual reconnaissance of the project site, vapor emission testing, relative humidity testing, subsurface exploration, laboratory testing, compilation and analysis of the data obtained and assisted in the preparation of a letter report presenting our observations and a summary of the data obtained to date, as well as preliminary repair recommendations. Ninyo &amp; Moore Fees: \$5,000</i></p>	<p align="center"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				
<b>4.</b>	<p><b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>Solar Panel Shade Canopies, Territorial Elementary School, Chino Valley, Arizona</b></p>	<p><b>(2) YEAR COMPLETED</b></p> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border: 1px solid black;">Professional Services 2013</td> <td style="width:50%; border: 1px solid black;">Construction (if applicable)</td> </tr> </table>		Professional Services 2013	Construction (if applicable)
	Professional Services 2013	Construction (if applicable)			
<p><b>(3) BRIEF DESCRIPTION</b> <i>(Brief scope, size, cost, etc.) AND SPECIFIC ROLE</i> <i>Senior Field Technician responsible for performing a geotechnical evaluation and soil resistivity study for solar panel shade canopy foundations at the Territorial Elementary School in Chino Valley, Arizona. The purpose of our evaluation was to assess the subsurface conditions at the project site in order to formulate geotechnical recommendations for design and construction of the planned solar panel foundations. Ninyo &amp; Moore Fees: \$12,800</i></p>	<p align="center"><input checked="" type="checkbox"/> Check if project performed with current firm</p>				



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Phoenix, Arizona 85007

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

Internship at Ninyo & Moore, Phoenix, Arizona

(2) YEAR COMPLETED

Professional Services  
2013

Construction (if applicable)

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

5. Interned at Ninyo & Moore for 1.25 years prior to graduating with Ph.D. Responsibilities included conducting geotechnical field investigations and visual geologic reconnaissance, laboratory testing of soils, aggregate, and concrete, and review of triaxial shear and permeability testing data.

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.)*

h. NAME <b>Lee Morris</b>	b. ROLE IN THIS CONTRACT <b>Principal Geologist / Environmental Services Manager</b>	c. YEARS EXPERIENCE	
		2. TOTAL 29	2. WITH CURRENT FIRM 8

d. LOCATION *(City and State)* Phoenix, Arizona

e. EDUCATION *(DEGREE AND SPECIALIZATION)*

B.S., Geology, 1984

f. PROFESSIONAL TRAINING - REGISTRATIONS  
RG 38736 (Arizona) / 40-Hour OSHA HAZWOPER Certification and Applicable / Refresher Courses

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

**H. RELEVANT PROJECTS**

1.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Right-of-Way, Loop 101 and Maryland Avenue, Glendale, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Principal during a Phase I Environmental Site Assessment (ESA) of 0.28 miles of the right-of-way along the west side of South 35<sup>th</sup> Avenue, north of Baseline Road in Phoenix, Arizona. Responsible for technical oversight and coordination of a Phase IESA report presenting Ninyo &amp; Moore's methodology, findings, opinions, and conclusions regarding the environmental conditions at the Site. Ninyo &amp; Moore Fees: \$1,800</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Tierra Del Rio Development, Environmental Consulting Services, Peoria, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Principal providing environmental consulting services during the technical review of the Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation (VRP) Program Application. The focus of our review was from the perspective of the land owner and on the technical validity of the environmental approach presented in the application. Ninyo &amp; Moore Fees: \$2,300</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>La Estancia, Tucson, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project during a Phase I Environmental Site Assessment. Responsible for providing technical oversight, coordination and guidance during project activities which included preparation of a Phase I Environmental Site Assessment report presenting our methodology, findings, opinions and conclusions regarding the environmental conditions at the project site. Our services also included third-party review of project related documents and remediation oversight at the project site. Ninyo &amp; Moore Fees: \$2,500</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Grand Canyon Ranch, Meadview, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Principal during a Limited Phase II Environmental Site Assessment (ESA) of three groundwater production well sites located at the Grand Canyon Ranch at 3750 Diamond Bar Road in Meadview, Arizona. This work was completed in general accordance with Ninyo &amp; Moore's October 30, 2013 proposal and client's authorization to proceed dated October 31, 2013. Services included preparation of a Limited Phase II ESA report presents Ninyo &amp; Moore's methodology, findings, opinions and conclusions regarding the Phase II ESA activities. Ninyo &amp; Moore Fees: \$6,800</i>	<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Badger Meter, COX Flow Initial Industrial Hygiene Survey, Scottsdale, Arizona</b>	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <i>Project Principal responsible for oversight of an employee exposure assessment within the COX Flow Measurement facility to evaluate environmental conditions during liquid calibration operations of flow measurement instrumentation. This assessment was conducted in response to reported strong odors detected by facility personnel when the calibration liquid is heated to achieve specified calibration parameters, and concerns of potential health effects from exposure to unknown contaminants. The scope of this assessment was developed based on discussions with the client and a review of provided Material Safety Data Sheets (MSDS) for the products used in the calibration liquid. Ninyo &amp; Moore Fees: \$4,350</i>	<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.)*

<b>i. NAME</b> <b>Michelle A. Fowler</b>	<b>b. ROLE IN THIS CONTRACT</b> <b>Principal Engineer</b>	<b>c. YEARS EXPERIENCE</b>	
		<b>3. TOTAL</b> 27	<b>2. WITH CURRENT FIRM</b> 4
<b>d. LOCATION (City and State)</b> Phoenix, Arizona			
<b>e. EDUCATION (DEGREE AND SPECIALIZATION)</b> B.S., Chemical Engineering, 1987, Arizona State University		<b>f. PROFESSIONAL TRAINING - REGISTRATIONS</b> PE Chemical 36622 (Arizona) / 40-Hour OSHA HAZWOPER Certification / American Red Cross CPR and First Aid Training	
<b>g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.)</b> Environmental Professionals of America			

**H. RELEVANT PROJECTS**

<b>1.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Arizona State University Spill Prevention Control and Countermeasure Update, Tempe, Arizona</b>	<b>(2) YEAR COMPLETED</b>	
		Professional Services 2010	Construction (if applicable)
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for updating the SPCC Plan for the ASU Main Campus in Tempe, Arizona. Responsible for reconnaissance of the ASU Main Campus, evaluated oil containing equipment and bulk oil containers including emergency generators, fuel above ground storage tanks (ASTs), used cooking grease tanks, and transformers owned by ASU and the Arizona Public Service Company (APS). Verified secondary containment systems and planned countermeasures if a spill or leak should occur. Updated the SPCC Plan incorporating field observations and documenting changes at the campus from the time of the original preparation of the SPCC Plan. <b>Ninyo &amp; Moore Fees: \$2,250</b>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>2.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Environmental Response, Inc. (ERI) UST Closures, Indian School Hospital, Phoenix, Arizona</b>	<b>(2) YEAR COMPLETED</b>	
		Professional Services 2013	Construction (if applicable)
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> As Project Manager, oversaw the sampling of a UST excavation at the Indian School Hospital. Directed additional excavation of petroleum impacted soils and resampling of excavation. Reviewed the UST closure report summarizing field activities and analytical results and concluded the vertical and lateral extent of impact from the historical operation of the UST had been adequately assessed. The report was submitted by ERI to ADEQ with a request that the status of the UST system be changed to closed with no further assessment required. <b>Ninyo &amp; Moore Fees: \$2,500</b>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>3.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Cemex Bee Line Plant Closure, Mesa, Arizona</b>	<b>(2) YEAR COMPLETED</b>	
		Professional Services 2012	Construction (if applicable)
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> As Project Manager, oversaw the closure of areas of environmental concern at a concrete and asphalt plant located on Tribal land. Oversaw the preparation of a closure plan which included a quality assurance project plan (QAPP), a health and safety plan (HASP), and a field sampling plan (FSP). The closure plan identified 13 areas of concern including underground asphalt emulsion tanks, two septic systems, a water supply pond, two underground maintenance pits, a reported release from a former underground storage tank (UST) system, a truck bed spray rack, and drum storage areas. Responsible for oversight during demolition, remediation, and sampling activities associated with each area of concern. Coordinated the disposal of asphalt impacted soils and excavation debris including concrete and asphalt emulsion. Pre pared, reviewed, and submitted closure reports for each of the areas of concern. Based on their review of the closure reports, the Salt River Pima-Maricopa Indian Community concluded each area of concern had been sufficiently assessed and additional investigation or remediation was not required. <b>Ninyo &amp; Moore Fees: \$800,000</b>		
		<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>4.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Phase I and II Environmental Site Assessments (ESAs), Wells Fargo Bank Arizona</b>	<b>(2) YEAR COMPLETED</b>	
		Professional Services Ongoing	Construction (if applicable)
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> Project Manager for multiple Phase I ESAs throughout Arizona, Colorado, and Texas for Wells Fargo Bank. Properties have included vacant, undeveloped land, gasoline stations, distribution warehouses, shopping centers, and child care facilities. Project Manager for the development and implementation of work plans for Phase II ESAs which have included sampling of a former agricultural property with an irrigation system and soil gas sampling for a warehouse distribution facility and a shopping center with a former dry cleaning facility. Re-viewed reports summarizing field observations, historical research, and environmental databases and identified recognized environmental conditions (RECs) for the properties. These reports were used by Wells Fargo Bank when evaluating if they would foreclose of a property or loan money to a prospective buyer. <b>Ninyo &amp; Moore Fees: \$40,000+</b>		
		<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 (City and State) White Tanks Flood Retarding Structure No. 4 Rehabilitation Project, Maricopa County, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Flood Control District of Maricopa County	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$3,250,000 +	e. TOTAL COST OF PROJECT Unknown
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Ninyo & Moore was retained as a prime-consultant for design of the White Tanks Flood Retarding Structure (FRS) No. 4 rehabilitation project within western Maricopa County, Arizona. The purpose of the project was to repair documented deficiencies associated with the FRS including horizontal and transverse cracking through the FRS embankment, removal and replacement of principal outlets so that they meet current design standards, embankment raising to accommodate increased floodpool storage, re-grading existing floodpool to eliminate existing dead-storage areas and improvements to the existing auxiliary spillways. Ninyo & Moore's responsibilities included overseeing all background review, field exploration, engineering analyses, design development, preparation of construction drawings, preparation of construction specifications and preparation of construction cost estimates. Design submittals were required at the 30%, 60%, 90% and 100% levels. In addition, NRSC and ADWR reviewed and commented on each design submittal.

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) Arizona State University Arizona Center for Law and Society, Phoenix, Arizona	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER Arizona State University	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$20,300	e. TOTAL COST OF PROJECT Unknown
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g. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Ninyo & Moore was retained by Arizona State University to conduct a geotechnical study for new construction of the Arizona Center for Law and Society building located in downtown Phoenix, Arizona. The project included the design and construction of a five-story above ground and two-story below ground (for parking) structure. The project scope is comprised of instructional space in the form of lecture halls, classrooms, and seminar rooms, a moot courtroom, law library, undergraduate instructional space, graduate student space, institutes, centers, and clinics, space for the law journals, a law firm, and ancillary support spaces.



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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> <b>Maryland Avenue HOV Ramps and Ramps II, Glendale, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>Arizona Department of Transportation</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$40,500</b>	e. TOTAL COST OF PROJECT <b>Unknown</b>
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**h. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)**

Ninyo & Moore performed a geotechnical evaluation for improvements associated with the Maryland Avenue HOV Ramps project in Glendale, Arizona. This project added HOV ramps within the median area along the SR 101L both north and south of Maryland Avenue to provide access to the existing Maryland Avenue underpass bridge. Each ramp is on the order of 1,500 feet in length connects the existing SR101L HOV lane to the Maryland Avenue bridge, providing one lane in each direction of travel. Additionally the project included drainage, lighting, median barrier, and signing improvements. Pavement sections consist of Portland Cement Concrete Pavement (PCCP) with an asphaltic concrete friction course (ACFC) overlay.

**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> <b>University of Arizona Environmental and Natural Resources Phase 2, Tucson, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>University of Arizona</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$144,000</b>	e. TOTAL COST OF PROJECT <b>Unknown</b>
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**i. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)**

Ninyo & Moore is currently providing materials testing services during the construction of the Environmental and Natural Resources Phase 2 project at the University of Arizona campus in Tucson, Arizona. The project includes construction of a new complex that will be the centerpiece of environmental research for the U of A. This highly sustainable facility will reflect the University of Arizona's commitment to resolving serious environments issues and act as an environmental teaching tool and gathering place for campus and community outreach missions.



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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> <b>Cemex Beeline Highway Plant Closure, Maricopa County, Arizona</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i>

**23. PROJECT OWNER'S INFORMATION**

c. PROJECT OWNER <b>Cemex</b>	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT <b>\$808,000</b>	e. TOTAL COST OF PROJECT <b>Unknown</b>
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j. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(include scope, size, and length of project)*

At the request of the Salt River Pima-Maricopa Indian Community (SRPMIC), Cemex, Inc. (Cemex) closed their sand and gravel operation located northeast of the intersection of State Route 87 and McDowell Road, SRPMIC, Maricopa County Arizona (site). Ninyo & Moore was contracted by Cemex to assess locations at the site considered by SRPMIC to have a potential to have an environmental impact on the site. A closure plan, which included a site characterization plan, field sampling plan, a quality assurance project plan, and a health and safety plan was prepared by Ninyo & Moore and approved by SRPMIC for the site. Ninyo & Moore was also responsible for preparing permits and coordinating with SRPMIC to install test borings into groundwater and demolish and excavate structures at the site.

A total of 10 areas of concern (AOCs), including a former septic system associated with an equipment maintenance shop, current and former lube pits used in the maintenance of site heavy equipment, drum storage areas, a fuel re-lease associated with a former diesel fuel UST, underground asphalt emulsion tanks, and drum storage areas, were identified at the site. Ninyo & Moore implemented the approved closure plan. Investigation work included the excavation and removal of three asphalt emulsion tanks and associated sampling of the excavation, obtaining groundwater samples using a Hydropunch system, removal and off-site disposal of over 27,000 tons of concrete and asphaltic concrete, installing and sampling soil borings, and exploratory trenching and sampling of soil. Individual closure re-ports were prepared for each AOC. Each closure report summarized field activities, analytical results, and quality assurance/quality control procedures. As of May 2011, of the 10 AOCs identified at the site, 9 have been closed by SRPMIC based on the closure reports prepared by Ninyo & Moore without requiring additional remediation or investigation. The remaining closure report is being reviewed by SRPMIC for consideration of closure of this AOC.



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:  
ADSP015-00004729

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

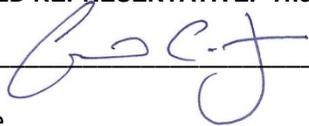
6. ADDITIONAL INFORMATION

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

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:	65%
b. Percentage of Total Work Attributable to Non-Government Work:	35%

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

Signature:   
Name: Eric C. Zite

Date: December 30, 2014  
Title: Principal

IMPORTANT NOTICE  
YOU MUST:

- REPORT DISASSOCIATION OF QUALIFYING PARTY **IN WRITING** WITHIN 15 DAYS. [SEE A.R.S. § 32-1154(A)(19) AND § 32-1151.01]
- REPORT A CHANGE OF ADDRESS **IN WRITING** WITHIN 30 DAYS. [SEE A.R.S. § 32-1151(B)(1)]
- REPORT ANY TRANSFER OF OWNERSHIP OF 50% OR MORE IMMEDIATELY. [SEE A.R.S. § 32-1151.01]
- REPORT ANY CHANGE OF LEGAL ENTITY SUCH AS ANY CHANGE IN THE OWNERSHIP IN SOLE PROPRIETORSHIP OR CHANGE OF A PARTNER IN A PARTNERSHIP OR THE CREATION OF A NEW CORPORATE ENTITY. [SEE RULE R-4-9-110]

Ninyo and Moore Geotechnical Consultants

3202 E Harbour Dr  
Phoenix, AZ 85034-8229

**THIS IS YOUR IDENTIFICATION CARD  
DO NOT DESTROY**



LICENSE EFFECTIVE THROUGH: 04/30/2015  
STATE OF ARIZONA  
**Registrar of Contractors** CERTIFIES THAT  
Ninyo and Moore Geotechnical Consultants



CONTRACTORS LICENSE NO 206210 CLASS A  
General Engineering

THIS CARD MUST BE  
PRESENTED UPON DEMAND

*William A. Mundell*  
DIRECTOR, ARIZONA REGISTRAR OF CONTRACTORS

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## FirmCard Roster - Firm Search Results

[Return to Firm Search](#)

Firm Name & Reg. # & Phone (Click for services offered and list of officers)	Branch 0=Main Office	Address	Registration Expires & Status
<a href="#">Ninyo &amp; Moore</a> 10836 (602) 243-1600	0	3202 East Harbour Drive Phoenix, AZ 85034	8/31/2015 1:00:00 PM Active



# REGISTRAR of CONTRACTORS STATE of ARIZONA



3838 N. Central Ave. Suite 400 • Phoenix, AZ 85012-1946 • 602-542-1525 • AZ Toll Free 1-877-692-9762 • Fax 602-542-1599

Janice Brewer, *Governor*

William A. Mundell, *Director*

May 31, 2012

Ninyo and Moore Geotechnical Consultants  
3202 E Harbour Dr  
Phoenix AZ 85034-8229



Dear Ninyo and Moore Geotechnical Consultants,

We are pleased to inform you that Eric Charles Zite has qualified for your class A license ROC206210.

Date of qualification was MAY 31, 2012.

Sincerely,

/s/ *Sparky Snyder*

Sparky Snyder, Customer Service Representative  
581 E Old Linden Rd Suite C  
Show Low, AZ 85901  
Phone: (928) 537-8842  
Fax: (928) 537-3091

10/01/2014

Arizona Corporation Commission  
State of Arizona Public Access System

10:46 AM

**Corporate Status Inquiry****File Number: F-1186382-5****Corp. Name: NINYO & MOORE, GEOTECHNICAL CONSULTANTS INC.****This Corporation is in Good Standing**

This information is provided as a courtesy and does not constitute legally binding information regarding the status of the entity listed above. To obtain an official Certificate indicating that the entity is in good standing click on **Print Certificate** and follow printing instructions. To re-print a previously generated Certificate of Good Standing click **Reprint Certificate**.

[Print Certificate](#)[Reprint Certificate](#)[Return to Corporate Inquiry](#)



Environmental Contamination Assessment



Geotechnical Subsurface Evaluation

## Firm Background

Established in San Diego in 1986, Ninyo & Moore has grown to one of the largest firms in the western United States specializing in Materials Testing and Inspection, Geotechnical Engineering, and Environmental Engineering Services. Engineering News Record recognized the firm as one of the Top 500 Design Firms in the United States.

Ninyo & Moore has fully equipped and certified in-house testing laboratories that offer full-service field and laboratory services for geotechnical design, and soil and materials testing projects.

## Professional Staff

Ninyo & Moore's staff of over 400 experienced and registered professionals includes:

- Geotechnical engineers
- Civil engineers
- Engineering geologists
- Hydrogeologists
- Geophysicists
- Certified field technicians
- Registered deputy inspectors
- Environmental engineers
- Environmental scientists
- Certified asbestos consultants
- Certified safety professionals
- Certified indoor environmental consultants
- Certified microbial consultants
- Lead project monitors
- Hazardous waste and regulatory compliance specialists

## Locations

Ninyo & Moore has offices located in the western United States including California, Arizona, Nevada, Colorado and Texas.

## Contact Us

800.427.0401 or  
nminquiries@ninyoandmoore.com

Since 1986, Ninyo & Moore has provided innovative solutions to complex geotechnical and environmental challenges. Ninyo & Moore provides specialized services in the areas of geotechnical engineering, engineering geology, environmental engineering, hazardous materials, construction inspection and testing, geophysics, forensic engineering, and industrial hygiene.

## Geotechnical Engineering and Geologic Services

- Dam characterization
- Earthquake and fault studies
- Earthwork and grading
- Expert witness testimony
- Feasibility studies
- Field instrumentation and monitoring
- Forensic evaluations
- Foundation design
- Geologic hazard evaluations
- Hydrogeologic evaluations
- Landslide evaluations
- Liquefaction
- Mineral resource evaluations
- NEPA/CEQA technical studies
- Pavement design
- Retaining structures
- Seismic design
- Seismic hazard assessments
- Slope stability
- Value engineering

## Environmental Consulting Services

- Air quality
- Brownfields redevelopment
- Due diligence CERCLA protection
- Environmental compliance audits
- Expert witness testimony
- Groundwater resources
- Landfills and burn dumps
- Mining and mineral assessments
- NEPA/CEQA technical studies
- Phase I and Phase II environmental assessments
- Pollution prevention and waste management
- Preliminary Environmental Assessments
- Potentially Responsible Party evaluations
- Regulatory negotiations
- Risk assessments
- School site evaluations
- Site remediation and closure
- Soil and groundwater contamination
- Storage tank services
- Stormwater sampling/analysis
- SWPPP Preparation
- Underground storage tank removal/assessment



Geotechnical Evaluation with Environmental Sampling



Limited Access Drilling



Groundwater Monitoring



Shoring Observation



UST Soil Sampling



Reinforced Concrete Inspection



UST Removal

## Construction Materials Testing and Inspection Services

- Asphalt laydown inspection
- Bolt torque inspection
- Compressive strength of concrete
- Compressive strength of grout
- Compressive strength of masonry
- Concrete and asphalt concrete batch plant inspection
- Concrete field placement inspection
- Coring of concrete and masonry
- Field compaction testing
- Fireproofing inspection
- Flexural strength of concrete beams
- Laboratory asphalt testing
- Laboratory concrete testing
- Laboratory soils testing
- Laboratory testing of reinforcing steel
- Litigation support
- Load testing of bolts and embeds
- Masonry unit inspection
- Non-destructive examination of weldments
- Replacement inspection of reinforced steel
- Prestressed concrete inspection
- Stabilized base and subbase materials inspection
- Steel shop fabrication inspection
- Structural steel fabrication inspection

## Industrial Hygiene/ Occupational Safety Services

- Accident investigations
- Asbestos and/or lead surveys
- Asbestos and lead management plans
- Biological hazards assessment
- Confined space entry program design
- Construction safety compliance
- Expert witness testimony
- Hazard communication plans
- HAZWOPER and specialty training
- Health and safety plan preparation
- Hearing conservation programs
- Indoor air quality investigations
- Industrial hygiene assessments
- Injury and illness prevention plans
- Moisture and mold investigations
- Mold abatement oversight
- Noise monitoring
- OSHA compliance
- Personnel exposure assessments
- Radiological materials surveys
- Respiratory protection program design



Asbestos Sampling



## ARIZONA

### Phoenix

3202 East Harbour Drive  
Phoenix, Arizona 85034  
p. 602.243.1600  
f. 602.243.2699

### Prescott Valley

8281 East Jacque Drive, Suite B  
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f. 928.759.8149

### Tucson

1991 East Ajo Way, Suite 145  
Tucson, Arizona 85713  
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f. 520.577.7606

## CALIFORNIA

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f. 949.753.7071

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2313 West Sam Houston Parkway North, Suite 119  
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f. 713.973.8450