

**DEFINITIONS**

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

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

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

**Firm:** Defined in ARS § 32-101(B.19.).

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

**SPECIFIC INSTRUCTIONS:**

1. Complete this form for each branch office seeking work under this RFQ.
  - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
  - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
  - g. **Ownership.**
    - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
    - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
  - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
  - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
  - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select Other. *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
  - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
  - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
  - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.
  - b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.

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- c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has earned over the last year per Profile Code entered into the table.
  
4. **Resumes of Key Personnel Proposed for This Contract.** Complete this section for each key person who will participate in this contract.
  - a. Self-explanatory.
  - b. Self-explanatory
  - c. Total years of relevant experience (block c1), and years of relevant experience with current firm, but not necessarily the same branch office (block c2).
  - d. Name, City and State of the firm where the person currently works, which must correspond with one of the firms (or branch office or a firm, if appropriate) listed in Section 1.
  - e. Provide information on the highest relevant academic degree(s) received. Indicate the area(s) of specialization for each degree.
  - f. Provide information on current relevant professional registration(s) and in which State(s) they are current.
  - g. Provide information on any other professional qualifications relating to this contract, such as education, professional registration, publications, organizational memberships, certifications, training, awards, and foreign language capabilities.
  - h. Provide information on no more than five (5) projects in the last year which the person had a significant role that demonstrates the person's capability relevant to her/his proposed role in this contract. These projects do not necessarily have to be any of the projects presented in Section 5 for the project team if the person was not involved in any of those projects or the person worked on other projects that were more relevant than the team projects in Section 5. Use the check box provided to indicate if the project was performed with any office of the current firm. If any of the professional services or construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description and Specific Role.
  
5. **Example Projects Which Best Illustrate Firms Qualification for this contract.** Select project where multiple team members worked together, if possible, that demonstrate the team's capability to perform work similar to that required for this contract. Complete one Section 5 for each project. List no more than five (5) projects.
  - a. Title and Locations of project or contract. For an indefinite delivery contract, the location is the geographic scope of the contract.
  - b. Enter the year completed of the professional services (such as planning, engineering study, or design), and/or the year completed if construction. If any of the professional services or the construction projects are not complete, leave Year Completed blank and indicate the status in Brief Description of Project and Relevance to This Contract (block f).
  - c. Project Owner or user, such as a government agency or installation, an institution, a corporation or private individual.
  - d. Provide the original budget or not to exceed dollar amount for the project.
  - e. Provide the Total Cost of the Project. If any of the professional services or construction projects is not complete, indicate the percentage complete and whether this project will be on budget, over or under budget.
  - f. Brief Description: Indicate scope, size, and length of project, principle elements and special features of the project. Discuss the relevance of the example project to this contract.
  
6. **Additional Information.** Use this section to provide additional information you feel may be necessary to describe your firm's qualifications for this contract.
  
7. **Annual Average Professional Services Revenues of Firm for Last 3 Years.** Complete this block for the firm or branch office for which this form is completed. In column a, enter an approximate percentage of total work attributable to State, Federal or Municipal Work. In column b, enter an approximate percentage of total work attributable to Non-Government work. Percentages should take into consideration work completed over the last 3 years.
  
8. **Authorized Representative.** An authorized representative of the firm or branch office must sign and date the completed form. Signing attests that the information provided is current and factual. Provide the name and title of the authorized representative who signed the form.

**List of Disciplines (Function Codes) for Question 7**

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

**List of Experience Categories (Profile Codes for Question 8)**

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

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Irrigation; Drainage  
Judicial and Courtroom Facilities  
Laboratories; Medical Research Facilities  
Land Surveying  
Landscape Architecture  
Libraries; Museums; Galleries  
Lighting (*Interior; Display; Theater, Etc.*)  
Lighting (*Exteriors; Streets; Memorials; Athletic Fields, Etc.*)  
Labs - General  
Labs – Research – Dry  
Labs – Research – Wet  
LEED Accredited A/E  
LEED Independent 3<sup>rd</sup> Party Building Commissioning  
Mapping Location/Addressing Systems  
Materials Handling Systems; Conveyors; Sorters  
Metallurgy  
Materials Testing  
Measurement / Verification / Conservation Water Consumption Savings  
Mining and Mineralogy  
Medical Related  
Modular Systems Design; Fabricated Structures or Components  
Mold Investigation  
Museums  
Nuclear Facilities; Nuclear Shielding  
Office Buildings; Industrial Parks  
Outdoor Recreation  
Petroleum and Fuel (*Storage and Distribution*)  
Photogrammetry  
Pipelines (*Cross-Country - Liquid and Gas*)  
Phase I Environmental  
Prisons & Correctional Facilities  
Plumbing and Piping Design  
Prisons and Correctional Facilities  
Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities  
Radar; Sonar; Radio and Radar Telescopes  
Radio Frequency Systems and Shielding's  
Railroad; Rapid Transit  
Recreation Facilities (*Parks, Marinas, Etc.*)  
Refrigeration Plants/Systems  
Rehabilitation (*Buildings; Structures; Facilities*)  
Research Facilities  
Resources Recovery; Recycling  
Roof Infrared Imaging to Identify Water Leaks

Roofing  
Safety Engineering; Accident Studies; OSHA Studies  
Security Systems; Intruder and Smoke Detection  
Seismic Designs and Studies  
Sewage Collection, Treatment and Disposal  
Soils and Geologic Studies; Foundations  
Solar Energy Utilization  
Solid Wastes; Incineration; Landfill  
Special Environments; Clean Rooms, Etc.  
Structural Design; Special Structures  
Surveying; Platting; Mapping; Flood Plain Studies  
Sustainable Design  
Swimming Pools  
Storm Water Handling and Facilities  
Specifications Writing  
Toxicology  
Testing and Inspection Services  
Traffic and Transportation Engineering  
Topographic Surveying and Mapping  
Towers (*Self-Supporting and Guyed Systems*)  
Tunnels and Subways  
Traffic Studies  
Transportation  
Urban renewals; Community Development  
Utilities (*Gas and Steam*)  
Value Analysis; Life-Cycle Costing  
Warehouse and Depots  
Water Resources; Hydrology; Ground Water  
Water Supply; Treatment and Distribution  
Wind Tunnels; Research/Testing Facilities Design  
Waste Water Treatment Facility  
Water Well Rehabilitation; Water Well Work  
Zoning; Land Use Studies

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

**1. REVISED ADSPO13-00003465: Annual Request for Qualifications**

a.	FIRM (OR BRANCH OFFICE) NAME:	Vernadero Group Incorporated
b.	FIRM (OR BRANCH OFFICE) STREET:	4422 East Indian School Road, Suite 101
c.	FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d.	FIRM (OR BRANCH OFFICE) STATE:	Arizona
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	85018

f.	YEAR ESTABLISHED:	1999
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(g1).	OWNERSHIP - TYPE:	Corporation
(g2)	OWNERSHIP - SMALL BUSINESS STATUS:	Small Business

h.	POINT OF CONTACT NAME AND TITLE:	Michael Collins, PhD, President and CEO
i.	POINT OF CONTACT TELEPHONE NUMBER:	(480) 315-1000
j.	POINT OF CONTACT E-MAIL ADDRESS:	mgcollins@vernadero.com

k.	NAME OF FIRM <i>(If block 1a is a branch office):</i>	
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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
Archeologist	P	1	
Biologist	P	2	
Biologist	S	4	
Chemical Engineer	S	1	
Civil Engineer	P	1	
Civil Engineer	S	2	
Construction Manager	P	1	
Construction Inspector	S	2	
Ecologist	P	3	
Ecologist	S	1	
Environmental Engineer	P	1	
Environmental Engineer	S	2	
Environmental Scientist	P	17	
Environmental Scientist	S	4	
Geographic Information System Specialist	P	2	
Geographic Information System Specialist	S	3	
Geologist	P	1	
Geologist	S	1	
Hydrologist	P	1	
Project Manager	P	2	
Project Manager	S	7	
Technician/Analyst	S	1	
Water Resources Engineer	S	3	
Other	P	5	
Other	S	6	
<b>Total</b>		<b>74</b>	

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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)
5	Air Pollution Control	3
2	Airports: Nav aids: Airport Lighting; Aircraft Fueling	2
1	Area Master Planning	1
9	Conservation and Resource Management	6
1	Construction Management	1
4	Ecological and Archeological Investigations	2
1	Energy Conservation; New Energy Sources	1
8	Environmental Impact Studies, Assessments, or Statements	3
1	Highways; Streets; Airfield Paving; Parking Lots	1
1	Historical Preservation	2
3	Irrigation; Drainage	4
2	Mold Investigation	2
1	Petroleum and Fuel (Storage and Distribution)	1
4	Phase I Environmental	2
1	Recreation Facilities (Parks, Marinas, Etc.)	4
1	Solid Wastes; Incineration; Landfill	1
2	Surveying; Platting; Mapping; Flood Plain Studies	2
1	Storm Water Handling and Facilities	1
2	Testing and Inspection Services	1
3	Water Resources; Hydrology; Ground Water	2
1	Water Well Rehabilitation; Water Well Work	1

**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 <b>Michael Collins, PhD</b>	b. ROLE IN THIS CONTRACT Program Manager/Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 18	2. WITH CURRENT FIRM 13
d. FIRM NAME AND LOCATION (City and State) Vernadero Group Inc.			
e. EDUCATION (DEGREE AND SPECIALIZATION) PhD, Environmental Design and Planning; Master of Environmental Planning; BS, Planning and Urban Development		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Program Management Professional, in progress; Occupational Safety and Health Administration (OSHA) 30-hour Construction Safety and Health; OSHA 30-hour General Industry Safety and Health	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dr. Michael Collins is the president and CEO of Vernadero Group Inc. (Vernadero), a small, veteran-owned business headquartered in Phoenix, Arizona, with branch offices in Flagstaff and Sierra Vista. As a Program Manager, he offers 18 years of experience in managing complex environmental, engineering, and scientific projects. His experience includes multidisciplinary technical staff management and coordination, project budgets, deliverable schedules, agency coordination, contract management, project coordination and organization, quality assurance (QA) and quality control (QC). As Vernadero's president, Michael manages and assigns the services of 40 employees in a wide range of disciplines, including biology/ecology, environmental engineering, cultural resources, archaeology, geology, hydrology, design-build construction, civil engineering, mechanical engineering, land surveying, cost engineering/estimating, geographic information system (GIS) services, industrial hygiene, and safety.			

**H. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)		(2) Year Completed	
		Professional Services	Construction (if applicable)
1) Environmental, Natural Resource, Cultural Resources, and Engineering Support Services, Indefinite Delivery/Indefinite Quantity (IDIQ), U.S. Army Garrison (USAG) Fort Huachuca, AZ	<input checked="" type="checkbox"/> Check if project performed with current firm		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Program Manager.</b> Under Michael's management, 117 task orders have been successfully completed and 20 are currently under way on this contract, which since 2008 has continuously supported the USAG Fort Huachuca Environmental and Natural Resource Division (ENRD) and the Engineering and Plans Support Division (EPSD). Michael has been involved on projects such as the design and construction of an Arab village Military Operation in Urban Terrain (MOUT), for which he served a Lead Planner and General Contractor Other projects have included a critical resource study examining and developing future planning strategies for airspace, electromagnetic spectrum, land, and infrastructure; alternative energy analysis and siting studies; an Integrated Natural Resource Management Plan update; various National Environmental Policy Act (NEPA) compliance documents; Stormwater And Erosion Control Plans; stormwater reuse studies, and environmental sampling. The current contract has been extended by the owner and is expected to conclude within budget in 2014. (\$13,270,267)			
2) Design/Build Commissary Parking Lot, Drainage, and Paving at Fort Huachuca, AZ	<input checked="" type="checkbox"/> Check if project performed with current firm		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Manager.</b> Michael was responsible for overall project design (conceptual plans through construction documents) and construction (site preparation, horizontal and vertical improvements, QA/QC, site safety, coordination of site inspections), and delivery of the final project. This project involved low-impact development and green technology renovations to the 5-acre commissary parking lot. Under his guidance, Vernadero remedied hazardous flooding conditions by designing and building a complex system of underground storage chambers, rain gardens, and infiltration galleries that eliminated flooding hazards and provides water storage and recharge. Work also included replacing inefficient parking lot lighting with new high-efficiency LED lights and redesigning internal traffic flows. (\$620,425)			

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**Michael Collins, PhD – Program Manager (Continued)**

	(1) TITLE AND LOCATION <i>(City and State)</i> Indefinite Delivery Contract for Architect and Engineering Services, U.S. Army Corps of Engineers (USACE) Mobile District/63d RSC, AZ, NM, NV, CA, TX, OK, and AR	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i>
3)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> <i>Program Principal.</i> This contract supports the USACE with natural and cultural resource management planning services. Projects have included multiple NEPA compliance projects, natural resources surveys, invasive species management plans, environmental compliance training, cultural resources surveys, and stormwater management plans. Michael's role is to organize project teams composed of environmental and engineering professionals who provide high-quality, cost-effective project deliverables. He also oversees task order proposal preparation, project scheduling, resource assignment, and contract execution. This project is 50% complete and is expected to finish on schedule and within budget. (\$3,540,125)		

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**4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section 4 for each key person.)**

a. NAME <b>Dean E. Alford, PG, CEM</b>		b. ROLE IN THIS CONTRACT Project Manager/Geologist		c. YEARS EXPERIENCE	
				1. TOTAL 25	2. WITH CURRENT FIRM 2
d. FIRM NAME AND LOCATION (City and State) Vernadero Group Inc.					
e. EDUCATION (DEGREE AND SPECIALIZATION) MS, Geology and Geochemistry; BS, Geology			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Professional Geologist (PG), Arizona (#50989) and other states; Certified Environmental Manager (CEM), Nevada; Project Management Professional, in progress; Certified Asbestos Inspector, Arizona and Nevada; Certified Lead Inspector and Lead Risk Assessor; Stormwater Management Training; OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) standard training; Resource Conservation and Recovery Act (RCRA) Management Training		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Dean Alford specializes in environmental management, groundwater hydrology, water resource development, basin analysis, aquifer storage and recovery, wellhead protection, well drilling, and testing. His background includes Phase I Environmental Site Assessment/Environmental Condition of Property (ECP) reports, environmental planning documents, hazardous waste sampling and characterization, environmental management, and stormwater and groundwater compliance. He has conducted ASTM Phase I and Phase II Environmental Site Assessments, Phase III remedial actions, and due diligence reports. As Vernadero's Environmental Compliance and Engineering Manager, he oversees staff with experience in civil engineering, hydrology, geology, and environmental compliance. Under his supervision, his staff has completed hundreds of environmental projects throughout Arizona, involving a broad range of environmental compliance and mitigation services. Memberships: Association of Engineering Geologists, Arizona Hydrologic Society, Arizona Association of Environmental Professionals, and American Public Works Association					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Mold Removal and Restoration, Building 11669, USAG Fort Huachuca, AZ	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Dean managed the evaluation of the building for indoor air quality concerns and potential sick building syndrome. He evaluated lead-based paint, asbestos, and mold and oversaw demolition of contaminated interior materials and building restoration. He worked with the Directorate of Public Works (DPW) to evaluate, mitigate, and restore this converted unmanned aerial vehicle hanger. Under his guidance, Vernadero realized cost savings that allowed the client to replace the swamp coolers, which were the primary source for mold contamination, with new high-efficiency heat pumps while staying within budget. (\$145,067)		
2)	2011 Environmental Compliance Management Support, USACE Mobile District/USAR 63d RSC, Various Facilities, AZ, AR, CA, NV, and TX	2013	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Geologist/Project Manager.</i> This project included Stormwater Pollution Prevention Plans; Stormwater Management Plans, sampling, reporting, and training; Spill Control and Countermeasure Plans; ECP reports; and evaluation of potentially contaminated sites. Dean managed the project, including the schedule, coordination with the 63d RSC training staff regarding certification for stormwater compliance trainees, and planning/scheduling for sampling at multiple facilities. (\$281,441)		

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**Dean Alford, PG, CEM – Project Manager (Continued)**

3)	(1) TITLE AND LOCATION <i>(City and State)</i> Removal of Hazardous Materials, 86th Electronic Signal Battalion, DPW-EPD, Fort Huachuca, AZ	(2) Year Completed	
		Professional Services 2012	Construction <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Dean managed and conducted surveys and inventories of waste materials at the former 86th Electronic Signal Battalion maintenance shop. He conducted hazardous waste determinations and containerized and labeled waste streams to be turned in to the Installation's 90-day hazardous waste accumulation point. The project also included cleaning and restoring service bay floors, sumps, and storage rooms for petroleum, oil, and lubricants. He also prepared the inventory and disposal report. The project was successfully completed ahead of the original schedule. (\$48,085)		
4)	(1) TITLE AND LOCATION <i>(City and State)</i> Update/Rewrite of Hazardous Waste Management Plan (HWMP), Fort Huachuca, AZ	(2) Year Completed	
		Professional Services 2012	Construction <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager/Geologist.</i> Dean guided the preparation of a comprehensive HWMP that complied with applicable state, federal, and Army regulations and guidance. Dean oversaw documentation of hazardous waste management processes, development of a HWMP from process mapping, and operation of satellite accumulation points through 90-day accumulation, disposal, and inspection. The project was completed six weeks ahead of the original schedule. (\$94,097)		
5)	(1) TITLE AND LOCATION <i>(City and State)</i> Storage Tank Management Plan, Fort Huachuca, AZ	(2) Year Completed	
		Professional Services 2013	Construction <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Dean guided the preparation of a comprehensive Storage Tank Management Plan. He field-verified locations of 16 underground storage tanks and 38 aboveground storage tanks from multiple data sets for a total of more than 170 storage tanks. He compiled global positioning system (GPS) data and georeferenced each field-verified location. He also developed easy-to-understand instructions for management of tanks and tank systems and summarized the cost-accounting guidelines.(\$47,955)		

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**4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT** (Complete one Section 4 for each key person.)

a. NAME <b>Sara Jackson, REM, REPA, CEA</b>		b. ROLE IN THIS CONTRACT Project Manager		c. YEARS EXPERIENCE	
				1. TOTAL 13	2. WITH CURRENT FIRM 5
d. FIRM NAME AND LOCATION (City and State) Vernadero Group Inc.					
e. EDUCATION (DEGREE AND SPECIALIZATION) BS, Environmental Studies			f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Registered Environmental Manager (REM); Registered Environmental Property Assessor (REPA); Certified Environmental Auditor (CEA); OSHA 40-Hour HAZWOPER		
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Sara Jackson is a Project Manager and environmental expert with 13 years of experience. Her project management experience includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. Her experience also includes managing multidisciplinary technical staff, project budgeting, scheduling, contract management, and monthly reporting. As Vernadero's Conservation Manager, Ms. Jackson oversees a staff of biologists/ecologists, NEPA specialists, and cultural resource specialists.					

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Environmental, Natural Resources, Cultural Resources, and Engineering Support Services at Fort Huachuca, AZ		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Sara was the Project Manager for task orders awarded under this contract, including cultural resource studies, air quality reporting projects, and NEPA assessments. She has managed a Programmatic Environmental Assessment (EA) of the potential impacts of installing and using renewable energy systems on Fort Huachuca, including solar, wind, geothermal, biomass, and methane systems. She led an interdisciplinary team to assess the potential impacts of these systems at several locations on the installation. The current contract has been extended by the owner and is expected to conclude within budget in 2014. (\$13,270,267)		
2)	Solar Array EA and ECP Report, Fort Huachuca, AZ		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Sara leads a multidisciplinary team tasked with preparing an EA and analyzing potential environmental impacts associated with the construction and operation of a photovoltaic solar array within the cantonment area of Fort Huachuca, as well as an ECP report for the proposed site. She manages budgets, schedules, and coordination with the client and other stakeholders. As part of this project, she will coordinate the public review of the EA and draft Finding of No Significant Impact and will prepare an administrative record that includes all deliverables, references, and relevant correspondence used throughout the project. This contract is approximately 60 percent complete and will finish within budget and on schedule. (\$63,465)		
3)	EA for the Future Use of Building 66050, Fort Huachuca, AZ		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Sara is managing overall project efforts, including oversight of personnel and tasks associated with the Section 106 consultation and an economic analysis. As the Section 106 process progresses and alternatives are determined, she will begin preparation of the EA using a team of resource specialists to prepare all deliverables required under the contract to address the future use/disposition of Building 66050 on Fort Huachuca. She is managing budgets and schedules, coordinating with the client, and will make arrangements for a public meeting as well as the required 30-day public review. This contract is ongoing and is approximately 5 percent complete and will finish on schedule and within budget.(\$109,472)		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience  
REVISED - Attachment I – General Qualifications**

**Sara Jackson, REM, REPA, CEA – Project Manager (Continued)**

	(1) TITLE AND LOCATION <i>(City and State)</i> NEPA Documentation and Analysis for Base Closure and Disposal Activities in Tucson, AZ, and Amarillo, San Antonio, and Wichita Falls, TX	(2) Year Completed	
		Professional Services	Construction <i>(if applicable)</i> N/A
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float: right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> <i>Project Manager.</i> Sara managed a multidisciplinary team in preparing EAs for five USAR centers being closed under BRAC 2005. She developed technical and cost proposals, coordinated schedules, communicated with local and regulatory agencies, provided product peer and QC review, submitted deliverables, maintained budgets, and prepared monthly reports. Four of the five EAs are complete; however, one has been delayed by cultural resources requirements being resolved by USACE Fort Worth District. This project is approximately 90 percent complete. The project is within the original budget; however, the schedule has been extended due to owner-initiated changes. (\$464,998)		

**RFQ# ADSP014-00003465, Annual Request for Qualifications and Experience  
REVISED - Attachment I – General Qualifications**

**4. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT** (Complete one Section 4 for each key person.)

a. NAME <b>Hayes Martin</b>	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 1
d. FIRM NAME AND LOCATION (City and State) Vernadero Group Inc.			
e. EDUCATION (DEGREE AND SPECIALIZATION) Associates Degree, Drafting and Architecture		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Arizona Registrar of Contractors License, Residential B-Class General Contractor; Department of Real Estate License, Phoenix, Arizona	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Hayes Martin is the Construction Services Manager for Vernadero. He has 19 years of experience in project management, design, construction, estimating, value engineering, and construction management and operations. Before joining Vernadero, Hayes owned and operated a design-build construction company. He has played an integral role in all aspects of the Vernadero's construction projects, including conceptual-to-final design development, construction document preparation, and construction activities scheduling and monitoring, and final approval coordination with the government.			

**H. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) Year Completed	
		Professional Services	Construction (if applicable)
1)	Design-Build Noncommissioned Officers (NCO) Academy Physical Training Field, Fort Huachuca, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Hayes prepared and managed the project budget, design, and schedule for the design-build construction of a new physical training field. The field is suitable for activities ranging from general exercise and martial arts and light-contact combat drills and includes custom-built pull-up bars, dip bars, and kettle bell storage units. Energy-efficient LED lighting was used for sustainability. Under Hayes' management, Vernadero designed and installed an innovative underground drainage system that drains stormwater through the turf into underground storage chambers, keeping the field free of ponding and eliminating the need for space-consuming detention basins or stormwater holding areas. Hayes supervised all subcontractors including selection of contractors to provide materials, installation in the field, and review and approval of invoices. He also coordinated with government users of the facility throughout construction to ensure the project met their needs. (\$651,000)		
2)	Repair Drainage at Dog Kennels, Fort Huachuca, AZ	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Hayes led the design team, prepared and managed the budget and schedule, and implemented construction activities for this project to prevent stormwater from flooding the military dog kennel facility. The drainage design captured and rerouted stormwater around the facility through a series of basins and drainage channels. Value engineering allowed Vernadero to incorporated site-based recharge of stormwater runoff through use of a landscaped infiltration basin within the original project budget. Construction efforts also emphasized retention and reuse of site vegetation for landscaping. All construction activities were implemented while the facility remained in full operation. (\$185,862)		
3)	Area K Bivouac Erosion Repair, Fort Huachuca, AZ	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Hayes prepared the design, oversaw work at the job site, and managed the budget, schedule, and subcontractors for this project, which provided a safe crossing at a wash by installing culverts and headwalls and resurfacing the north and south approaches to the crossing. The work involved extensive excavation and removal of nonconductive soils and the design and installation of concrete headwalls and culverts. (\$83,900)		

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REVISED - Attachment I – General Qualifications**

**Hayes Martin – Project Manager (Continued)**

	(1) TITLE AND LOCATION <i>(City and State)</i> Hatfield Ditch Bank Stabilization, Fort Huachuca, AZ	(2) Year Completed	
		Professional Services 2012	Construction <i>(if applicable)</i> 2012
4)	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Project Manager.</i> Hayes was in charge of the project design and implementing the project solution in the field for this design-build bank stabilization project, which employed a structurally engineered wall of gabions to prevent further erosion within the wash. He also prepared and managed the budget, supervised subcontractors, developed the project schedule, and coordinated with the government during inspections. The project was a success and was completed ahead of the projected schedule.		

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REVISED - Attachment I – General Qualifications**

5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> <b>Mold Removal and Restoration, Building 11669, Fort Huachuca, AZ</b>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER USAG Fort Huachuca, AZ	d. DOLLAR AMOUNT OF PROJECT \$145,067.46	e. TOTAL COST OF PROJECT \$145,067.46

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

Vernadero worked with Fort Huachuca EPSD staff to evaluate the indoor environment at Building 11669, mitigate unhealthful conditions, and restore the building to safe use. Our team provided a comprehensive investigation of all potential sources of sick building syndrome. We evaluated the structure for asbestos-containing materials and used X-ray fluorescence (XRF) to locate lead-based paint. We conducted visual observations of water-damaged areas; obtained air samples, including samples to evaluate airborne volatile organic compounds; and collected swab and bulk samples. Our examination included evaluation of Indoor air quality (IAQ) for mold spores and mycotoxins.

All activities complied with U.S. Environmental Protection Agency (EPA) regulations for lead-based paint inspections, Asbestos Hazard Emergency Response Act protocols for bulk asbestos collection, and American Conference of Governmental Industrial Hygienists consensus guidelines for measurement and mitigation of mold contaminants.



Results for lead paint and asbestos were negative, but IAQ laboratory results indicated that the ceiling insulation was contaminated with mold spores. During remediation and restoration, we determined that the swamp coolers had fallen into disrepair and were the primary source of mold and moisture, causing spores to grow throughout the building and allowing mycotoxins to enter the heating, ventilating, and air conditioning (HVAC) system.

Replacement of the swamp coolers was necessary to prevent recurrence of mold contamination throughout Building 11669, but the Unmanned Aerial Vehicle Squadron Program lacked the budget to take this step. **Through cost-saving efficiencies elsewhere on the project, Vernadero was able to remove the swamp coolers and replace them with new high-efficiency heat pumps and add ductwork.** This provided energy savings for the Fort and has improved space conditioning as well as eliminating a source of IAQ concerns.

Following approval of the Mitigation and Restoration Work Plan by DPW, Vernadero proceeded with the mitigation by removing contaminated carpet, acoustic ceiling tiles, insulation, swamp coolers, a gas-fired heating unit, and ductwork. After mitigation and disinfection, Vernadero encapsulated the building interior with an antimicrobial compound. Our team then installed the two new HVAC units and new ductwork; sealed the perimeter plenum, roof, and exterior building penetrations; applied an elastomeric roof coating; installed acoustic ceiling tiles and fiberglass insulation; repaired, textured, and painted drywall; and installed vinyl floor tile and coving.



**Results:** Vernadero completed this firm-fixed-fee task order **within budget and a month ahead of the period of performance** while providing the Fort with a new HVAC system through value engineering.

**Relationship to ADOA Contract**

- ✓ Arizona project
- ✓ Experience with State of Arizona, EPA, and industry regulations, protocols, and standards for mitigating IAQ contaminants
- ✓ Use of value engineering to add features
- ✓ Completion ahead of schedule
- ✓ Involvement of proposed key personnel:  
Dean Alford, PG, CEM – 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> <b>Design-Build NCO Academy Physical Training Field, Fort Huachuca, AZ</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> 2013
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER USAG Fort Huachuca	d. DOLLAR AMOUNT OF PROJECT \$651,000	e. TOTAL COST OF PROJECT \$651,000	

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

Changes in Army physical training (PT) regulations and soaring student attendance rendered the NCO Academy's former PT facilities at Fort Huachuca inadequate to meet current and future needs. The Fort determined that a larger, modernized field was required to provide sufficient space and proper equipment for students to perform the Army's updated military drills and exercise routines.

Vernadero worked closely with Fort stakeholders throughout the **design-build** process for this new 17,000-square-foot PT field, now considered **one of the finest in the United States**. Top-of-the-line synthetic turf with shock-absorbent padding makes the field suitable for activities ranging from general exercise and martial arts to light-contact combat drills. Updated exercise equipment includes **custom-built** pull-up bars and dip bars as well as kettle-bell storage.



**Energy-efficient LED lighting** reduces energy costs while maximizing sustainability.

Our staff also designed and installed an **innovative underground system** that drains the water from 100-year stormwater events **through the turf into underground storage chambers**, keeping the field free of ponding while eliminating the need for space-consuming detention basins or stormwater holding areas. Planning and design of this system involved hydrologic and hydraulic modeling of site drainage to mitigate water flow onto the field.



**Results:** Vernadero completed this firm-fixed-fee task order **within budget and on schedule** while providing design innovations.

**Relationship to ADOA Contract**

- ✓ Arizona project
- ✓ Design-build construction
- ✓ Innovative drainage design
- ✓ Hydrologic and hydraulic modeling
- ✓ Energy-efficient technology
- ✓ Involvement of proposed key personnel:  
Hayes Martin – 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>		b. YEAR COMPLETED	
<b>Design/Build Commissary Parking Lot, Drainage, and Paving at Fort Huachuca, AZ</b>		PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> 2012
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT	
USAG Fort Huachuca	\$620,425	\$620,425	

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

Funded by Fort Huachuca's Sustainment Revitalization and Modernization Fund, the new commissary parking lot replaces an older, poorly drained lot that flooded during monsoon season, sometimes forcing commissary patrons to wade through as much as 2 feet of water to reach the store. Vernadero worked with the DPW-ENRD, the designer of the new lot, throughout the design-build process to implement a **low-impact "green" design with minimal inconvenience** to commissary customers. **Construction took place in two phases**, with work taking place on half the lot at a time so shoppers could continue to park at the commissary.



The new 5-acre lot features 236 parking spaces, an increase of 32 spaces over the old parking lot's capacity. The new spaces are 6 inches wider to better accommodate large vehicles and are striped diagonally for ease of parking. One-way parking lanes and 8-foot pedestrian walkways have been incorporated to improve safety. The lot's original mercury-vapor lamps have been replaced by **energy-saving, environmentally friendly LED lights**. Trees were also planted in the median to provide shade. Landscaping, including decorative native plants and xeriscaping, was partially funded by the Defense Commissary Agency.

Drainage was improved by lowering the grade of the parking lot and sloping it to capture stormwater runoff in a complex system of underground storage chambers, rain gardens, and infiltration galleries **designed and built by Vernadero**. The redesigned drainage captures and stores approximately 0.5 acre-feet of water per storm and can **recharge the aquifer** by an estimated 6 to 8 acre-feet annually.

**Results:** Vernadero completed this firm-fixed-fee task order **on time and within budget** while providing design innovations.

**Relationship to ADOA Contract**

- ✓ Arizona project
- ✓ Phased design-build construction
- ✓ Innovative drainage and aquifer recharge design
- ✓ Use of low-impact, green technology
- ✓ Involvement of proposed key personnel:  
Dr. Michael Collins – Project Manager



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
<b>Operations and Maintenance Manual for Sanitary Sewer System at Fort Huachuca, AZ</b>	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER	d. DOLLAR AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
USAG Fort Huachuca	\$94,000	\$94,000

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

In 2012, Vernadero developed the first Operations and Maintenance (O&M) Manual ever prepared for Fort Huachuca's sanitary sewer system. The manual complied with Arizona Department of Environmental Quality (ADEQ) requirements and involved collecting GPS field data to fill data gaps, conducting an asset inventory of lift station infrastructure, analyzing existing O&M manual procedures, and suggesting O&M actions. Vernadero also carried out field inspections and provided project oversight to ensure that the O&M Manual met the Fort's planning needs.

**Results:** Vernadero completed this firm-fixed-fee task order **on time and within budget.**



Relationship to ADOA Contract
<ul style="list-style-type: none"> <li>✓ Arizona project</li> <li>✓ Compliance with ADEQ requirements</li> <li>✓ GPS data collection</li> <li>✓ Field inspection</li> </ul>

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience  
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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT		
<i>(Present no more than five (5) projects. Complete one Section 5 for each project.)</i>		
a. TITLE AND LOCATION <i>(City and State)</i> <b>2011 Environmental Compliance Management Support Various Facilities U.S. Army Reserve 63d Regional Support Command, AZ, AR, CA, NV, and TX</b> Percentage Complete: 100%	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION		
c. PROJECT OWNER USACE Mobile/63d RSC	d. DOLLAR AMOUNT OF PROJECT \$281,441	e. TOTAL COST OF PROJECT \$281,441

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

Vernadero prepared Environmental Management Plans for more than 20 facilities, including Stormwater Pollution Prevention Plans, Stormwater Management Plans, Notices of Intent, and Notices of Termination. These projects were required to ensure compliance with local, state, federal, and U.S. Army regulations. Vernadero has also provided Spill Prevention, Contamination, Control and Countermeasures Plans (SPCCCPs) for five USAR facilities in Arizona, Arkansas, Nevada, and Texas.

**Stormwater Compliance**

Vernadero provided support in meeting local, state, and federal stormwater regulations for **four USAR facilities in Arizona (Phoenix, Mesa, Tucson, and Fort Huachuca)**, and 18 facilities in California that conduct vehicle maintenance are permitted for the discharge of stormwater under the Stormwater General Permit, which requires each regulated facility to complete annual inspections, dry- and wet-season observations, stormwater sampling and analysis, and annual reports. Vernadero staff aided installation staff in obtaining samples, maintaining records, and preparing reports. Under this contract, key individuals at each facility were trained to implement Stormwater Management Programs.

Vernadero prepared Notices of Intent for new USAR facilities and Notices of Termination for closing facilities. All facilities received stormwater training in stormwater management; effects of stormwater pollution on human health and the environment; Stormwater Pollution Prevention Plans; best management practices (BMPs); stormwater management forms; and stormwater sampling and analysis. Analysis included the following potential stormwater pollutants: pH, total suspended solids, specific conductivity, and oil and grease.



Each year our staff conducted a comprehensive site evaluation of each USAR facility, which included (1) review of visual observation records, inspection records, and sampling and analysis results; (2) visual inspection of potential pollutant sources for evidence of, or potential for, pollutants entering the drainage system; (3) review and evaluation of structural and nonstructural BMPs to determine whether the BMPs were adequate, properly maintained and implemented, and whether additional BMPs were required; and (4) preparation of an evaluation report.

**Spill Prevention, Contamination, Control, and Countermeasures**

Related to this work, Vernadero is developing an initial or updated SPCCCP for each of the five USAR facilities in Arizona, Nevada, Texas, and Arkansas. All plans are in accordance with Title 40 Code of Federal Regulations Part 112. Photographs identify areas where BMPs will be effective in spill control, and both photographs and ESRI-compatible GIS data layers identify products and locations subject to SPCCCP requirements.

**Results:** This project was completed **on time and within budget.**

**Relationship to ADOA Contract**

- ✓ Work on four facilities in Arizona
- ✓ Compliance with local, state, and federal regulations
- ✓ Stormwater compliance
- ✓ Spill prevention services contamination, control, and countermeasures services
- ✓ Involvement of proposed key personnel:  
Dean Alford, PG, CEM – Project Manager

## 6. ADDITIONAL INFORMATION

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

### Our Arizona-Based Small Business Offers Wide-Ranging Services

Vernadero Group Inc. (Vernadero) is an **Arizona-based small, veteran-owned business** founded in 1999 specifically to serve the environmental, engineering, and design-build construction needs of governmental clients. Vernadero is headquartered in **Phoenix**, with branch offices in **Flagstaff** and **Sierra Vista** and six additional locations across the United States. In total we offer **more than 40 personnel** in disciplines such as program and project management; biology and ecology; environmental engineering and compliance; cultural resources; civil and chemical engineering; geology and hydrology; and geographic information system (GIS)/database services. Combined, our resources and organizational structure enable Vernadero to provide staff, equipment, and services to projects in **northern, central, and southern Arizona** quickly and cost effectively.

Vernadero provides Arizona clients with a diverse array of services demonstrated by nearly 200 projects over the past 14 years. To complete such projects our staff maintain **up-to-date experience with state and local regulations, standards, and regulatory and governmental organizations**, and maintain a broad knowledge of Arizona's unique environment and ecology, geology and hydrology, and cultural resources. We have also strived to build strong relationships with local businesses, contractors, and vendors that share our values and our passion for outstanding performance, which assures our clients of fast and cost-efficient service at all times.

Over the years, Vernadero has successfully undertaken programs and projects with fees **from under \$10,000 to over \$2 million. These efforts have ranged** from reseeding Arizona grasslands with native species to overseeing multisite programs involving environmental compliance, natural and cultural resources, design-build, real-property master planning, and other services. In the last five years alone, we have conducted an estimated \$13.5 million of business in Arizona, all for governmental clients. For these projects, our ability to reliably provide high-quality services and deliverables has gained Vernadero an excellent reputation with our clients and frequently brings us repeat business. The State of Arizona can be assured that Vernadero has the technical expertise, qualified staff, workload capacity, and financial strength to deliver top-notch projects statewide. We look forward to continuing to contribute to the vitality of Arizona's economy and environment and the well-being of its communities through any contracts awarded through this submittal.

Details about our bonding capacity, representative projects, proposed staff, quality assurance/quality control (QA/QC), and health and safety processes are provided below.



*Vernadero's Headquarters on Indian School Road in Phoenix*



*Vernadero Staff on Site in Southern Arizona*

#### **Vernadero Offers the State of Arizona...**

- ✓ An Arizona-founded and Arizona-based small business
- ✓ A business that exclusively serves government clients—and understand government needs
- ✓ Proven ability to deliver both large and small projects on time and within budget
- ✓ A diverse roster of services
- ✓ Experience with local, state, tribal, and federal regulations
- ✓ **Commitment to client satisfaction and added value**

### Our Bonding Capacity Shows Our Financial Strength

Vernadero has a bonding capacity of \$10 million. This assures our clients that we have the financial strength to undertake projects of virtually any size or complexity.

### Our “Lean,” Client-Centered Approach Provides Added Value

As a small business, Vernadero understands the importance of the bottom line. Our “lean” approach to staffing and budgeting allows us to consistently deliver high-quality, cost-effective projects to our clients on time and **often with value-added options**. Our Program Manager, Dr. Michael Collins, ensures that sufficient personnel and resources are available to all projects assigned to Vernadero by conducting regular work schedule reviews with key personnel to evaluate personnel utilization rates and workload projections. As a matter of company practice, our Project Managers and assigned team also work closely with clients to find ways to exceed expectations and objectives. Through teamwork and open, frequent communication with the client and consultants, we expedite tasks, rapidly resolve unforeseen issues, streamline schedules, and achieve cost savings. At all times we actively search for strategies that will enable our client to incorporate value-added features within the original budget and schedule.

### We Successfully Deliver Projects of Varied Types and Sizes

During our nearly 15 years in business, Vernadero has the proven ability to execute projects in a wide range of disciplines, whether the project is large or small, simple or complex. We can assist the State of Arizona with assignments ranging from statewide multidisciplinary programs to small, individual projects of under \$10,000. We have experience with a wide variety of projects, as shown in Exhibit 1.

### Value Added: Building 11669



When tasked to identify the cause of potential sick building syndrome at Building 11669 on Fort Huachuca in southern Arizona, our staff realized that the existing swamp coolers needed to be replaced to eliminate the main source of mold spores. By working closely with the client, we found cost savings that allowed us to replace the coolers with new, high-efficiency heat pumps while staying within the original budget.

### Exhibit 1. We Have Experience in the Following State of Arizona Categories...and More

- |   |  |  |
|---|--|--|
| ✓ <i>Air Pollution Control</i>                                  | ✓ Dining Halls; Clubs; Restaurants                               | ✓ <i>Petroleum and Fuel</i>                                |
| ✓ <i>Airports: Navajids: Airport Lighting; Aircraft Fueling</i> | ✓ <i>Ecological and Archeological Investigations</i>             | ✓ <i>Phase I Environmental</i>                             |
| ✓ <i>Animal Facilities</i>                                      | ✓ <i>Energy Conservation; New Energy Sources</i>                 | ✓ <i>Recreation Facilities</i>                             |
| ✓ <i>Antiterrorism/Force Protection</i>                         | ✓ <i>Energy /Water Auditing Savings</i>                          | ✓ <i>Rehabilitation</i>                                    |
| ✓ <i>Area Master Planning</i>                                   | ✓ <i>Environmental Impact Studies, Assessments or Statements</i> | ✓ <i>Solid Wastes; Incineration; Landfill</i>              |
| ✓ <i>Child Care/Development Facilities</i>                      | ✓ <i>Highways; Streets; Airfield Paving; Parking Lots</i>        | ✓ <i>Surveying; Platting; Mapping; Flood Plain Studies</i> |
| ✓ <i>Commercial Building (Low Rise); Shopping Centers</i>       | ✓ <i>Historical Preservation</i>                                 | ✓ <i>Stormwater Handling and Facilities</i>                |
| ✓ <i>Community Facilities</i>                                   | ✓ <i>Irrigation; Drainage</i>                                    | ✓ <i>Testing and Inspection Services</i>                   |
| ✓ <i>Conservation and Resource Management</i>                   | ✓ <i>Mold Investigation</i>                                      | ✓ <i>Water Resources; Hydrology; Ground Water</i>          |
| ✓ <i>Construction Management</i>                                | ✓ <i>Outdoor Recreation</i>                                      | ✓ <i>Water Well Rehabilitation; Water Well Work</i>        |
| ✓ <i>Design-Build - Preparation of Requests for Proposals</i>   |  |  |

Note: *Green italic type* = Experience within the last year

### ***We Routinely Support Multidisciplinary Programs***

Because of the diversity of our services and our ability to deliver cost-effective solutions quickly, Vernadero has been selected as the prime contractor for multidisciplinary programs across Arizona and throughout the country. The following are a few recent programs:

- Installation Environmental, Natural Resources, Cultural Resources, and Engineering Support Services Indefinite Delivery/Indefinite Quantity Contract, Fort Huachuca, Arizona (\$13,270,267)
- Spill Prevention Control and Countermeasure Plans for Five U.S. Army Reserve (USAR) Facilities, Arizona, Arkansas, Nevada, and Texas (\$99,000)
- Environmental Training Support for Various Units and Facilities, USAR, 63d Region Support Command (RSC), Arizona, Arkansas, California, Oklahoma, Nevada, New Mexico, and Texas (\$214,549)
- Environmental Compliance Management Support for Various Facilities USAR, 63d RSC, Arizona, Arkansas, California, Nevada, and Texas (\$281,441)
- National Environmental Policy Act (NEPA) Documentation and Analysis for Base Closure and Disposal Activities. Tucson, Arizona, and Amarillo, San Antonio, and Wichita Falls, Texas (\$464,998)

These programmatic contracts demonstrate our ability to deliver a wide array of services beyond the typical scope of most small businesses. Examples of the breadth of these services are presented in Exhibit 1.

### ***Our Recent Arizona Experience Showcases Our Project Diversity***

Vernadero's recent work in Arizona includes projects ranging from cultural and natural resources studies to environmental assessments (EAs) and pollution prevention plans. Exhibit 2 lists representative projects Vernadero has performed in Arizona from 2010 to the present day.

### ***Vernadero Provides Accountability and Quality***

Vernadero maintains a rigorous QA/QC program that requires our staff and consultants to adhere to our corporate quality manual and to project-specific QA/QC guidelines and objectives. All deliverables are subject to this QA/QC process, which involves peer technical review and editorial review for accuracy, completeness, clarity, consistency, and readability. GIS data undergo QC review by a qualified GIS professional before being submitted.

Vernadero also uses real-time project management and accounting software that allows our staff to accurately track, estimate, and report project progress and both indirect and direct costs.

### ***We Are Serious about Health and Safety***

At Vernadero, we take health and safety seriously. Our process includes safety procedures and documentation, safety audit protocols, corrective actions, and lessons learned. We ensure all staff and subconsultants have proper safety training, conduct daily on-site safety meetings, and document team actions. We also develop an activity hazard analysis for all field efforts.

Vernadero is professional, timely and technically proficient in all areas. I would highly recommend Vernadero and would work with them again in the future.

– Scott Miller, Chief  
Training Division, Directorate  
of Plans, Training, Mobilization  
and Security,  
Fort Huachuca, Arizona  
December 2012

Vernadero Group is probably the most ethical firm we have ever had the pleasure of doing business with.

– Wayne Alves, Former Chief  
Environmental Division,  
U.S. Army Reserve,  
63d Regional Support  
Command  
December 2009

Vernadero has **never** had an Occupational Safety and Health Administration recordable or lost-time incident in the 14 years we have been in business.

**Exhibit 2. Our Recent Arizona Projects Demonstrate Variety and Versatility**

**Representative Vernadero Projects in Arizona (2010 – Present)**

**Cultural and Natural Resources**

- Archaeological Sites and Threatened and Endangered Species GIS Data Development (\$58,800)
- Critical Resources Study (\$847,852)
- Documentation and National Register Evaluation for 29 Buildings (\$28,663)
- 2011 Lesser Long Nosed Bat Survey (\$42,411)
- East Range Native Grass Seeding after Mastication (\$49,745)
- Huachuca Water Umbel Habitat Management and Recovery Work (\$114,853)
- Invasive Plant Survey and Removal within Huachuca Water Umbel Critical Habitat on Fort Huachuca (\$15,279)
- Mexican Spotted Owl Monitoring (\$69,902)
- Native Grass Seeding (\$60,751)
- Study of the Effects of Fire on Palmer's Agave (\$52,276)
- Unmanned Aerial Systems Noise Effects on Lesser Long-Nosed Bats (\$25,976)
- Update Integrated Natural Resources Management Plan (\$124,697)
- Xeriscape the Robert Scheetz Obstacle and Confidence Courses (\$195,311)

**Design and Design/Build Construction**

- Design of Pioneer Runway (\$119,882)
- Design/Build Commissary Parking Lot, Drainage, and Paving (\$620,425)
- Design-Build Noncommissioned Officers Academy Physical Training Field (\$651,000)

**Environmental Compliance and Hazardous Waste**

- Clean Air Act (CAA) Greenhouse Gas Mandatory Reporting and Title V Permitting (\$143,720)
- CAA Permit Annual Emissions Inventory (\$88,490)
- CAA Permit Compliance Statement Semiannual Report to Arizona Department of Environmental Quality (\$23,209)
- Environmental Cleanup of Aerostat Crash (\$39,918)
- Environmental Compliance System for Hazardous Waste (\$92,781)
- Environmental Compliance System for Potable Water (\$98,778)
- Environmental Compliance System for Wastewater (\$83,565)
- Pollution Prevention Plan Update (\$84,854)
- Potable Water Analysis Required by Safe Drinking Water Act (\$33,774)
- Preparation of Site-Specific Spill Contingency, Control and Countermeasures Plans (\$56,836)
- Storage Tank Management Plan (\$47,956)
- Mold Removal and Restoration of Building 11669 (\$145,067)
- Update/Rewrite of Hazardous Waste Management Plan (\$94,097)
- 2013 Wastewater Analysis (\$92,817)

**GIS, GPS, and Miscellaneous IT Services**

- Data Development and Storage Management Support (\$99,802)
- Emergency Planning and Community Right-to-Know Act Database Solutions (\$92,603)
- Light Detection and Ranging (LIDAR) Digital Elevation Model and Digital Orthophoto Upgrade (\$196,637)
- Update of Environmental Management System Intranet Website (\$19,521)

**Hydrology/Drainage/Water Resources**

- 2013 Potable Water Analysis (\$48,532)
- East Range Watershed Rehabilitation/Erosion Control (\$490,644)
- Operations and Maintenance Manual for Sanitary Sewer System (\$94,000)
- Stormwater/Rainwater Harvesting and Reuse Study (\$49,934)

**NEPA Documentation**

- Programmatic EA of Possible Renewable Energy Sources/Systems (\$57,876)
- Programmatic EA of the U.S. Army Electronic Proving Ground Testing and Use of Lasers (\$65,896)
- Real Property Master Plan Update and Associated EA Preparation (\$345,247)
- Solar Array EA and Environmental Condition of Property Report (\$63,466)

**We Offer Highly Qualified Staff with Arizona Experience**

Vernadero offers the State of Arizona highly qualified staff with recent and ongoing **experience with Arizona projects**. Our personnel are familiar with state and local agencies, regulations, codes, and statutes as well as regional issues. As shown in our organization chart, key personnel can draw upon support staff in numerous disciplines to fulfill project requirements. Altogether, we employ more than 40 personnel nationwide who can provide assistance as needed.

Our Program Manager is Vernadero’s company president and CEO, Michael Collins, PhD, who will be the primary liaison between Vernadero and the State of Arizona for all service-related matters. Michael is **authorized to bind contracts and dedicate staff and resources to projects**. He works closely with our project managers to ensure staffing and resources are available as needed.

Day to day operations will be managed by three Project Managers, covering 12 disciplines. These PM will have **decision-making authority for all project activities** and will interact with State of Arizona staff and consultants on the project level. The assigned Project Manager will directly oversee Vernadero’s services for the duration of any awarded project. Brief summaries of the qualifications of our project management team and key support staff are provided below.

**Project Management Qualifications**

**Michael Collins, PhD – Program Manager**



As a Program Manager, Michael offers 18 years of experience in managing complex environmental, engineering, and scientific projects, with a career emphasis on work in Arizona. His experience includes multidisciplinary technical staff management and coordination, project budgets, deliverable schedules, agency coordination, contract management, project coordination and organization, and QA/QC. He has served as Program Manager for all of Vernadero’s programs in Arizona and, as company president and CEO, has provided executive oversight of project tasks.

Michael has a PhD in Environmental Design and Planning, a Masters of Environmental Planning degree, and a BS in Urban Planning and Development.

**Dean Alford, PG, CEM – Project Manager**



Dean Alford, PG, CEM, specializes in environmental management and compliance, groundwater hydrology, water resource development, basin analysis, aquifer storage and recovery, wellhead protection, well drilling, and testing. His background includes Environmental Condition of Property (ECP) reports, environmental planning documents, hazardous waste sampling and characterization, environmental management, and



Michael Collins, PhD  
Program Manager



Support Staff	
Air Quality	Health and Safety
Biology/Ecology	Invasive Species Mitigation
Cultural Resources	NEPA Coordination
Geology/Hydrogeology	QA/QC
GIS/Data Management	Transportation/Circulation
Hazardous Materials/Wastes	Utilities Coordination

Organization Chart

**Key Qualifications  
Michael Collins, PhD**

- ✓ 18 years of experience on Arizona projects
- ✓ Extensive program and project management experience
- ✓ Environmental planning and design experience

**Key Qualifications  
Dean Alford, PG, CEM**

- ✓ 25 years of experience, primarily in Arizona
- ✓ Experienced with Arizona groundwater hydrology
- ✓ Expert in environmental compliance

stormwater and groundwater compliance. He has conducted ASTM Phase I and Phase II Environmental Site Assessments, Phase III remedial actions, and due diligence reports. He has worked extensively on environmental compliance, hydrological, and related projects in Arizona.

Dean is registered as a professional geologist (PG) in Arizona, California, and Nevada and as a Certified Environmental Manager (CEM) in Nevada. He has a MS in Geology and Geochemistry and a BS in Geology.

**Sara Jackson, REM, CEA, REPA – Project Manager**



Sara Jackson is a Project Manager and environmental expert with 13 years of experience. Her project management experience includes preparing and managing NEPA documents, Findings of Suitability to Transfer, Memoranda of Agreement, disposal packages, deed covenants and environmental protection provisions, environmental baseline surveys, ECP reports, and natural and cultural resource surveys. She is also experienced in managing technical staff, project budgeting, scheduling, and contract management. Her recent experience includes serving as Project Manager for two EAs for recent Arizona projects.

**Key Qualifications  
Sara Jackson, REM, CEA,  
REPA**

- ✓ 13 years of experience,
- ✓ Environmental/NEPA expert
- ✓ Experienced with EAs and Programmatic EAs for Arizona projects

Ms. Jackson is a Registered Environmental Manager (REM), Certified Environmental Auditor (CEA), and Registered Environmental Property Assessor (REPA). She has a BS in Environmental Studies.

**Hayes Martin – Project Manager**



Hayes Martin has 19 years of experience in project management, design, construction, estimating, value engineering, and construction management and operations. Before joining Vernadero, Hayes owned and operated a design-build construction company. He has played an integral role in all aspects of the Vernadero’s construction projects, including conceptual-to-final design development, construction document preparation, and construction activities scheduling and monitoring, and final approval coordination with government agencies. He has worked recently on design-build and drainage repair projects in Arizona, among other local work.

**Key Qualifications  
Hayes Martin**

- ✓ 19 years of experience
- ✓ Experienced Project Manager and design/build contractor
- ✓ Licensed Arizona contractor

Has holds an Arizona Registrar of Contractors License as a Residential B-Class General Contractor and a Department of Real Estate License in Phoenix, Arizona. Hayes has an Associate’s Degree in Drafting and Architecture.

**Key Support Personnel Qualifications**

**Jack Novak, PE, CIH – Certified Industrial Hygienist**



Jack Novak, PE, CIH, has 40 years of experience in industrial hygiene and environmental health. He has been Vernadero’s Certified Industrial Hygienist (CIH) since 2008. Jack is responsible for approving and annually certifying Vernadero’s Company Health and Safety Plan and project-specific Site Health and Safety Plans for work involving potentially

**Key Qualifications  
Jack Novak, PE, CIH**

- ✓ 40 years of experience with environmental health
- ✓ Experienced in hazardous waste inspections
- ✓ Experienced in developing and certifying Health and Safety Plans

hazardous working conditions. He has supervised and conducted indoor air

quality investigations for office buildings, maintenance facilities, health care facilities, manufacturing plants, and schools. He has extensive experience preparing Site Safety Plans and conducting inspections of hazardous waste sites; responding to hazardous chemical release incidents; auditing process health and safety at facilities handling extremely hazardous chemicals; and coordinating Superfund Amendments and Reauthorization Act Title III activity.

Jack is registered as a CIH with the American Board of Industrial Hygiene and is registered as a Professional Environmental Engineer (PE) in Arizona and as a PE in California and Michigan. He has an MS in Mathematics and a BS in Metallurgical Engineering.

### **Stephen Yost, RPA – Archaeologist**



Stephen Yost, RPA, is a professional archaeologist, principal investigator, and field supervisor with 21 years of experience in cultural resource compliance. His projects have involved assuring compliance with Sections 106 and 110 of the National Historic Preservation Act, NEPA, Native American Graves

Protection and Repatriation Act, Archaeological Resources Protection Act, Section 404/Clean Water Act, and other local, state, tribal, and federal regulations. Stephen has worked extensively throughout Arizona, and is experienced with both prehistoric and historic resources in the state. He has also been permitted as a Principal Investigator for a wide array of federal, state, and tribal land jurisdictions, including Arizona public lands.

Stephen has a BA and MA in Anthropology and is a certified member of the Register of Professional Archaeologists (RPA).

#### **Key Qualifications Stephen Yost, RPA**

- ✓ 21 years of archaeological experience
- ✓ Experience with prehistoric and historic archaeology
- ✓ Experience with tribal consultation

### **Kevin Dickinson, CNRM –Biologist/Ecologist**



Kevin Dickinson, CNRM, has 13 years of experience as a wildlife biologist, conducting flora/fauna inventory surveys throughout the United States, including Arizona, and he is familiar with Arizona special status species. During his career, Kevin has worked with special status species on long-term projects to assess viability and impacts of human behavior on

species' success. He has providing project management and technical support for Environmental Impact Assessments, NEPA documentation, threatened and endangered species surveys and management, invasive species surveys and control, Endangered Species Act Section 7 consultation, baseline biological surveys, and ecological risk assessments.

Kevin is a Certified Natural Resource Manager (CNRM) and has a BS in Biology.

#### **Key Qualifications Kevin Dickinson, CNRM**

- ✓ 13 years of experience
- ✓ Experience with special status species in Arizona
- ✓ Experience with Arizona wetlands

### **Adam Narish, CNRM – Biologist/Ecologist**



Adam Narish, CNRM, has more than 10 years of experience as a biologist/ecologist. He specializes in providing project management of and technical support to Environmental Impact Assessments (EIAs), threatened and endangered species surveys and management, invasive species surveys and control,

#### **Key Qualifications Adam Narish, CNRM**

- ✓ 10 years of experience
- ✓ Experience with special status species in Arizona
- ✓ Experience with Arizona wetlands

Endangered Species Act Section 7 consultation, baseline biological surveys, and ecological risk assessments.

Adam is a CNRM and has a BS in Zoology and a BS in Biological Aspects of Conservation.

**Salvador (“Sal”) Garcia, PE – Civil Engineer**



Salvador (“Sal”) Garcia is a Civil Engineer with 14 years of experience in civil and project engineering, project management, construction management, contract administration, water resources planning, and land use planning. His areas of expertise include strategic water reuse (involving collecting, compiling, and analyzing drinking and wastewater data); project and land use planning; and land development and improvements.

Mr. Garcia is a registered PE and has a BS in Environmental Engineering.

**Key Qualifications  
Salvador Garcia, PE**

- ✓ 14 years of civil engineering experience
- ✓ Experience with Arizona water resources and drainage projects
- ✓ Expertise in land use planning and development

**Gretchen Kent – QA/QC Supervisor**



Gretchen Kent has 23 years of environmental and engineering experience, mainly in Arizona. Gretchen’s experience includes program and project oversight and NEPA compliance support as well as QC of technical documentation, contractor performance, and related field and construction processes. She has also provided services related to hydrology, geology, and erosion control.

Gretchen is certified as a Lean Six Sigma black belt—the highest level attainable for quality management. She has an MS in Geology/Geochemistry and a BA in Earth Science.

**Key Qualifications  
Gretchen Kent**

- ✓ 23 years of experience,
- ✓ QA/QC expert
- ✓ NEPA compliance specialist

**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:	100
b.	Percentage of Total Work Attributable to Non-Government Work:	0

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

Signature:

Date: December 12, 2013

Name: Michael Collins, PhD

Title: President and CEO, Vernadero Group Inc.