

State of Arizona



December 30, 2014

2015 Annual Professional Services List Professional Engineering and Consulting Services

Solicitation Number: ADSP015-00004729



ATTACHMENT I – General Qualifications

**ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729**

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

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

1. **Annual Request for Qualifications**

a. FIRM (OR BRANCH OFFICE) NAME:	Civil & Environmental Consultants, Inc.
b. FIRM (OR BRANCH OFFICE) STREET:	11811 N. Tatum Boulevard, Suite 3057
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	Arizona
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85028
f. YEAR ESTABLISHED:	1989
(g1). OWNERSHIP - TYPE:	Corporation
(g2) OWNERSHIP - SMALL BUSINESS STATUS:	N/A
h. POINT OF CONTACT NAME AND TITLE:	Randal F. Bodnar, Vice President
i. POINT OF CONTACT TELEPHONE NUMBER:	602-760-2324
j. POINT OF CONTACT E-MAIL ADDRESS:	rbodnar@cecinc.com
k. NAME OF FIRM (If block 1a is a branch office):	Civil & Environmental Consultants, Inc.



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2. EMPLOYEES BY DISCIPLINE

a. Discipline Title	b. Function: Primary (P) or Secondary (S)	c. No. of Employees - Firm	d. No. of Employees - Branch
Archeologist	P	4	
Architect	P	1	
Biologist	P	24	
CADD Technician	P	38	
Civil Engineer	P	118	4
Construction Inspector	P	46	
Construction Manager	S	5	
Cost Engineer/Estimator	S	60	1
Ecologist	P	71	
Environmental Engineer	P	25	1
Environmental Scientist	P	50	3
Geodetic Surveyor	P	60	
Geographic Information System Specialist	P	13	
Geologist	P	44	1
Hydraulic Engineer	S	2	
Hydrographic Surveyor	S	9	
Landscape Architect	P	10	
Mining Engineer	S	2	
Project Manager	S	115	9
Sanitary Engineer (Solid Waste)	P	63	6
Soils Engineer (includes Geotechnical)	P	25	
Structural Engineer	S	2	
Technician/Analyst	S	40	1
Transportation Engineer	S	10	2
Water Resources Engineer	P	19	
Other: Administrative	P	64	1
Other: Computer Programmer	P	2	
Total		677(P); 245 (S)	16 (P); 13 (S)

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a. Approximate No. of Projects	b. Experience	c. Revenue Index Number (see below)
140	Air Pollution	6
520	Codes; Standards; Ordinances	8
100	Construction Management	6
20	Design-Build	5
420	Ecological and Archeological Investigations	8
480	Environmental Impact Studies, Assessments or Statements	7
80	Forensic Engineering	3
1	Industrial Waste Treatment	1
15	Landscape Architecture	2
320	Land Surveying	6
1	Mining & Mineralogy	1
1,120	Soils and Geologic Studies; Foundations	9
520	Solid Wastes; Incineration; Landfill	8
20	Surveying; Platting; Mapping; Flood Plain Studies	3
25	Storm Water Handling & Facilities	3
160	Water Resources; Hydrology; Ground Water	7

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 Miguel A. Aceves, PE	b. ROLE IN THIS CONTRACT Senior Civil/Transportation Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 19	2. WITH CURRENT FIRM 1

d. LOCATION (City and State)
Phoenix, Arizonae. EDUCATION (DEGREE AND SPECIALIZATION)
B.S., Civil Engineeringf. PROFESSIONAL TRAINING - REGISTRATIONS
Engineer/Civil Arizona #40952

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

Mr. Aceves provides project management, engineering/design services, and construction administration on civil and transportation projects for municipal, state, and private clients. His experience includes roadway engineering and drainage design; traffic engineering and transportation planning; civil and site design; water, sewer, and storm drain design; traffic signals, and ITS systems. His thorough knowledge of the design and construction process, maintenance of traffic, and construction sequencing requirements enables him to design efficiently by considering the project as a whole. Mr. Aceves has managed projects varying in size from \$10K to more than \$15M in professional services fees, involving specialized multidisciplinary teams, multiple funding sources, and alternative project delivery methods.

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Civil Improvements, Oregano's at Estrella Falls; Goodyear, Arizona	(2) YEAR COMPLETED	
		Professional Services On-Going	Construction (if applicable) On-Going
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Quality Manager. Provided civil engineering services including: paving and drainage, storm drainage facilities, and water and sewer design. Engineering Fee: \$49K	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) UTA Airport Light Rail Final Design, Salt Lake City, Utah	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable) 2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer/Manager. Provided roadway design, grading, drainage, and pavement marking and signage design for the 6-mile light rail segment. The Light Rail line was designed through built-out urban infrastructure, requiring detailed reconfiguration of North Temple Street (major arterial) and in-depth design of adjacent commercial and industrial facilities. The design included multimodal elements such as pedestrians, bicycles, and different transit modes (bus, commuter rail, and light rail). As Project Manager, led the engineering services during construction to address value engineering changes, additional design features, and expedite construction. Engineering Fee: \$15.6M	<input type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) City of Bisbee Comprehensive Transportation Plan, Bisbee, Arizona	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead Civil Engineer. Provided pavement evaluation, infrastructure assessment, and improvement recommendations to set forth a comprehensive repair and maintenance program. Engineering Fee: \$180K	<input type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) CityScape Infrastructure Improvements, Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Responsible for the development of offsite improvement plans on adjacent streets to the CityScape project consisting of roadway and storm drain improvements, utility demolition, traffic signals, new design for Central Avenue, and geometric modifications to Washington St, Jefferson St, and 1st St. Engineering Fee: \$440K	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) Mayo Boulevard and Tatum Boulevard Roadway Improvements, Phoenix, Arizona	(2) YEAR COMPLETED	
		Professional Services 2008	Construction (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Transportation Project Manager. Prepared construction documents and specifications for 1/2 mile of new roadway on Mayo Boulevard and 1,800 feet of new roadway on Tatum Boulevard due to a vertical realignment to accommodate a new box culvert. Other design features included traffic signal, signing and striping, street lighting, water and sewer design, drainage structures, and storm drain design. Engineering Fee: \$360K	<input type="checkbox"/> Check if project performed with current firm	



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

a. NAME	b. ROLE IN THIS CONTRACT	c. YEARS EXPERIENCE	
		1. TOTAL	2. WITH CURRENT FIRM

Randal F. Bodnar, PE

Senior Civil/Environmental
Project Manager

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d. LOCATION (City and State)
Phoenix, Arizona



e. EDUCATION (DEGREE AND SPECIALIZATION)
M.S., Civil and Environmental Engineering
B.S., Petroleum Engineering

f. PROFESSIONAL TRAINING - REGISTRATIONS
Engineer/Civil Arizona #48595

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

Mr. Bodnar is a Vice President in CEC's Phoenix Office experienced in managing civil, environmental, and geotechnical projects. He is familiar with facilities and environmental conditions throughout the Greater Phoenix Metropolitan Area and is knowledgeable in the core federal and state regulatory programs. Mr. Bodnar has managed hundreds of projects varying in size and has interfaced with stakeholders, owners, and the public on projects exhibiting complex conditions. Mr. Bodnar is ultimately responsible for quality, performance, and client satisfaction on all projects produced by CEC's Phoenix Office.

H. RELEVANT PROJECTS


	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		Professional Services	Construction (if applicable)
1.	Civil Improvements, Oregano's at Estrella Falls; Goodyear, Arizona	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-in-Charge. Provided civil engineering services including: paving and drainage, storm drainage facilities, and water and sewer design. Engineering Fee: \$49K	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	City of Phoenix Environmental Services 2013-2014 On-Call, Phoenix, Arizona	On-Going	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-in-Charge. Performed over 20 Phase I Environmental Site Assessments (ESAs) on various properties in the Phoenix metropolitan area. Projects were completed on a wide variety of property types, including right-of-way acquisitions for bus bays and utility corridors. Additional services for city property purchases and special programs included obtaining additional archaeological records, vapor encroachment considerations, ADEQ and Maricopa County specific databases, and specific reporting requirements. Engineering Fee: \$75K	<input checked="" type="checkbox"/> Check if project performed with current firm	
3.	Republic Services, Inc. Environmental Services, Nationwide	On-Going	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Completed over 100 Phase I and II ESAs and continues to assist Republic with their due diligence needs. He has helped to identify potential liability and operational concerns related to property transactions and company acquisitions. Engineering Fee: \$900K	<input checked="" type="checkbox"/> Check if project performed with current firm	
4.	North Phoenix CNG Fueling Station Design-Build, Phoenix, Arizona	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge. Provided civil and site engineering services for the construction of a compressed natural gas (CNG) fueling station at an existing vehicle maintenance facility to support the fueling of waste collection fleet vehicles and public retail CNG customers. CEC provided site layout, grading and drainage design, stormwater management design, SWPPP and SPCC, pavement design, and regulatory assistance for approval of improvements and CNG infrastructure. Engineering Fee: \$47.5K	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	Civil Improvements, JBS Processing Facility Expansion Design-Build, Tolleson, Arizona	2013	2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal-In-Charge. Performed civil/site and transportation engineering services for this complex and fast moving project. Oversaw construction documents for roadway improvements on 91st Avenue, stormwater facilities, facility entrances, sidewalk and landscaping improvements, water and sewer lines, a new high pressure gas line, expansion of parking areas, and a new cold storage distribution warehouse. Engineering Fee: \$260K	<input checked="" type="checkbox"/> Check if project performed with current firm	



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

a. NAME Michael R. McBrady, P.E.		b. ROLE IN THIS CONTRACT Civil/Environmental Engineer		c. YEARS EXPERIENCE	
				1. TOTAL 9	2. WITH CURRENT FIRM 5
d. LOCATION (City and State) Phoenix, Arizona					
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Engineer/Civil Arizona #51577			
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Experienced in civil engineering, environmental engineering, and construction administration. His experience includes civil site design, hydrology and stormwater infrastructure design, stormwater pollution prevention plans (SWPPP), environmental due diligence, and environmental and civil permitting for projects throughout Arizona. Mr. McBrady is also experienced in environmental assessment and remediation projects on municipal facilities, solid waste facilities, vacant land, right-of-way acquisitions, and residential and mixed use facilities.					
H. RELEVANT PROJECTS					
1.	(1) TITLE AND LOCATION (City and State) City of Phoenix Environmental Services 2013-2014 On-Call, Phoenix, Arizona			(2) YEAR COMPLETED	
				Professional Services On-Going	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Performed over 20 Phase I Environmental Site Assessments (ESAs) on various properties in the Phoenix metropolitan area. Projects were completed on a wide variety of property types, including right-of-way acquisitions for bus bays and utility corridors. Additional services for city property purchases and special programs included obtaining additional archaeological records, vapor encroachment considerations, ADEQ and Maricopa County specific databases, and specific reporting requirements. Engineering Fee: \$75K			<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION (City and State) Republic Services, Inc. Environmental Services, Nationwide			(2) YEAR COMPLETED	
				Professional Services On-Going	Construction (if applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Engineer. Completed over 100 Phase I and II ESAs and continues to assist Republic with their due diligence needs. He has helped to identify potential liability and operational concerns related to property transactions and company acquisitions. As part of the due diligence process, completed hazardous materials management assessments on facilities with existing or future planned hazardous materials use. He has completed multiple Stormwater Pollution Prevention Plans (SWPPP), and Spill Prevention, Control, and Countermeasure (SPCC) plans for various facilities, including site specific operations recommendations and implementation methods to address compliance needs and environmental regulations. Engineering Fee: \$900K			<input checked="" type="checkbox"/>	Check if project performed with current firm
3.	(1) TITLE AND LOCATION (City and State) Fort Mohave Well Feasibility Study, Ft. Mohave, Arizona			(2) YEAR COMPLETED	
				Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Engineer. Completed a well feasibility study to investigate the potential presence of a non-potable groundwater supply for the Mohave Valley Landfill. The project included construction of a test well and preliminary design of a water distribution line from the Town of Ft. Mohave. Engineering Fee: \$36.5K			<input checked="" type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (City and State) Civil Improvements, JBS Processing Facility Expansion Design-Build, Tolleson, Arizona			(2) YEAR COMPLETED	
				Professional Services 2013	Construction (if applicable) 2013
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Performed civil/site and transportation engineering services for this complex and fast moving project. Managed engineering services for roadway improvements on 91st Avenue, stormwater facilities, facility entrances, sidewalk and landscaping improvements, water and sewer lines, a new high pressure gas line, expansion of parking areas, and a new cold storage distribution warehouse. Engineering Fee: \$260K			<input checked="" type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (City and State) CityScape Infrastructure Improvements, Phoenix, Arizona			(2) YEAR COMPLETED	
				Professional Services 2009	Construction (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Designer. Prepared offsite improvement construction documents plans on adjacent streets to the CityScape project consisting of roadway and storm drain improvements, traffic signals, new design for Central Avenue, and geometric modifications to Washington St, Jefferson St, and 1st St. Engineering Fee: \$440K			<input type="checkbox"/>	Check if project performed with current firm



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

a. NAME Geoffrey T. Stone, PE, LEED AP	b. ROLE IN THIS CONTRACT Civil Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 10	2. WITH CURRENT FIRM 2
d. LOCATION (City and State) Phoenix, Arizona			
e. EDUCATION (DEGREE AND SPECIALIZATION) MBA, Business Administration B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS Engineer/Civil Arizona #50756	

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

Experienced in site civil design, drainage, and airport projects for public and private clients throughout Arizona. His experience includes site plans, grading and drainage plans, gas infrastructure, paving plans, utility plans and coordination, demolition plans, drainage modeling and reports, stormwater pollution prevention plans (SWPPP), spill prevention, control and countermeasure plans (SPCC), permitting support, and construction administration. This diverse background enables Mr. Stone to have a unique understanding of complex development projects, from the planning phase of the project and final design, through construction administration.

H. RELEVANT PROJECTS


	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
1.	Civil Improvements, Oregano's at Estrella Falls; Goodyear, Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Prepared construction documents for: paving and drainage, storm drainage facilities, water and sewer design, parking design, SWPPP and erosion control, topographic and ALTA surveys, complex permitting with the utility company due to special agreements with the owner, and construction administration services. Engineering Fee: \$49K	Professional Services 2014 <input checked="" type="checkbox"/> Check if project performed with current firm	Construction (if applicable) 2014
2.	North Phoenix CNG Fueling Station Design-Build, Phoenix, Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Provided civil and site engineering services for the construction of a compressed natural gas (CNG) fueling station at an existing vehicle maintenance facility to support the fueling of waste collection fleet vehicles and public retail CNG customers. He prepared construction documents for site layout, grading and drainage design, stormwater management design, and provided regulatory assistance for approval of improvements and CNG infrastructure. Engineering Fee: \$47.5K	Professional Services 2014 <input checked="" type="checkbox"/> Check if project performed with current firm	Construction (if applicable) 2014
3.	Feasibility Study and Regional Basin Reconfiguration, Chandler Fashion Center; Chandler, Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Engineer. Performed a feasibility study for a regional basin reconfiguration, including property drainage allocation calculations, preliminary engineering for construction cost estimates, and legal descriptions. Engineering Fee: \$22K	Professional Services 2014 <input checked="" type="checkbox"/> Check if project performed with current firm	Construction (if applicable) N/A
4.	FedEx Phoenix Hub Pavement Rehabilitation, Phoenix, Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Civil Engineer. CEC performed a preliminary field investigation and report for pavement rehabilitation at the FedEx Phoenix Hub Facility. Construction documents were prepared based on field reports developed by CEC, geotechnical findings, and site conditions. Engineering Fee: \$10K	Professional Services 2014 <input checked="" type="checkbox"/> Check if project performed with current firm	Construction (if applicable) 2014
5.	Paradise Valley Community College (PVCC) Building 'Q', Phoenix, Arizona (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer. Provided civil engineering services for the renovation and remodel of an existing library building. As part of the changes to the building footprint and site hardscape, Mr. Stone adapted existing utility infrastructure, retention facilities, and site grading while meeting the existing site constraints. Building 'Q' received a Citation Award from the American Institute of Architects (AIA), Arizona Chapter. Engineering Fee: \$40K	Professional Services 2010 <input type="checkbox"/> Check if project performed with current firm	Construction (if applicable) 2011



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

a. NAME Scott W. Johnson	b. ROLE IN THIS CONTRACT Senior Environmental Specialist – Solid Waste	c. YEARS EXPERIENCE	
		1. TOTAL 20	2. WITH CURRENT FIRM 1
d. LOCATION (City and State) Phoenix, Arizona 			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Mr. Johnson's specializes in environmental engineering, resource recovery techniques/operations, waste management, landfill engineering and operations, and characterization of human health and environmental risks associated with soil and groundwater contamination and development of effective cleanup strategies. He is experienced in site characterization, pilot testing, groundwater step testing, remediation system design for vapor extraction and groundwater pump and treat systems. He has designed numerous solid waste transfer stations ranging from 300 tons/day to 2,500 tons/day and has extensive experience with landfill gas (LFG) collections systems.			
H. RELEVANT PROJECTS			
1.	(1) TITLE AND LOCATION (City and State) Republic Services, Inc. Environmental Services, Nationwide	(2) YEAR COMPLETED Professional Services On-Going Construction (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Environmental Specialist. Assists Republic with their due diligence needs, facilities assessment, and leachate and LFG evaluation. He has helped to identify potential liability and operational concerns and has completed hazardous materials management assessments on facilities with existing or future planned hazardous materials use. He provides landfill and facilities operations recommendations. Engineering Fee: \$900K	<input checked="" type="checkbox"/> Check if project performed with current firm	
2.	(1) TITLE AND LOCATION (City and State) Cinder Lake Landfill, Flagstaff, Arizona	(2) YEAR COMPLETED Professional Services 2013 Construction (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Environmental Specialist. Performed Tier II attest for the City of Flagstaff Cinder Lake Landfill to estimate methane emissions as required by New Source Performance Standards. Engineering Fee: \$20K	<input type="checkbox"/> Check if project performed with current firm	
3.	(1) TITLE AND LOCATION (City and State) Camino Real Landfill, Sunland Park, New Mexico	(2) YEAR COMPLETED Professional Services 2013 Construction (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Environmental Specialist. Performed a Tier II test to determine site specific methane gas generation for LFG mass emissions rate. This field test resulted in the design of LFG extraction wells with a known radius of influence. This resulted in a savings of thousands of dollars in construction costs for the client and vastly improved the LFG collection system at Camino Real Landfill, New Mexico. Engineering Fee: \$32K	<input type="checkbox"/> Check if project performed with current firm	
4.	(1) TITLE AND LOCATION (City and State) Resource Recovery Landfill Facilities, Transpacific Waste Management, Melbourne, Australia	(2) YEAR COMPLETED Professional Services 2006 Construction (if applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Manager. Managed two (2) resource recovery facilities at the Transpacific Waste Management Fraser Road and Victory Road Landfills in Melbourne, Australia. The plants were capable of processing 500 tons of waste (commercial, industrial, and demolition) per day with a material recovery rate of up to 65 percent. Operating Annual Budget \$2.4M	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (City and State) San Tan Transfer Station, Waste Management of Arizona, Gilbert, Arizona	(2) YEAR COMPLETED Professional Services 2004 Construction (if applicable) 2004	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Specialist. Fully enclosed 2,500 tpd waste transfer station for domestic and commercial with load out tunnel, and scale house. Engineering Fee: \$250K / Construction Cost: \$4.5M	<input type="checkbox"/> Check if project performed with current firm	

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THIS CONTRACT***(Present no more than five (5) projects. Complete one Section 5 for each project.)***a. TITLE AND LOCATION** *(City and State)***City of Phoenix Environmental Services 2013-2014 On-Call, Phoenix, Arizona****b. YEAR COMPLETED****PROFESSIONAL SERVICES
On-Going****CONSTRUCTION** *(If applicable)*
N/A**23. PROJECT OWNER'S INFORMATION****c. PROJECT OWNER****City of Phoenix****d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT****\$75K****e. TOTAL COST OF PROJECT****\$75K****f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT** *(include scope, size, and length of project)*

CEC has provided on-going environmental engineering services as an on-call consultant to the City of Phoenix and has performed over 20 Phase I ESAs on various properties in the Phoenix metropolitan area since 2012. Projects have been completed on a wide variety of property types, including right-of-way acquisitions for bus bays and utility corridors. Additional services for city property purchases and special programs included obtaining additional archaeological records, vapor encroachment considerations, ADEQ and Maricopa County specific databases, and specific reporting requirements. CEC has worked closely with multiple City of Phoenix departments to provide a client specific scope of services for projects related to City property purchases and programs; special considerations were given to budget, quality, and schedule sensitivity.



*Laveen Conveyance
Channel Ph I ESA,
Burrowing Owl*

Relevance: Demonstrates knowledge of City of Phoenix processes, policies and procedures, and ability to work with multiple City departments. Shows ability to maintain initial budgets and scope while meeting tight schedules set by City of Phoenix staff and departments.



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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)

North Phoenix CNG Fueling Station (Design-Build), Phoenix, Arizona

b. YEAR COMPLETED

PROFESSIONAL SERVICES
2014

CONSTRUCTION (If applicable)
2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER

Waste Management

d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT

\$47.5K

e. TOTAL COST OF PROJECT

\$47.5K

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

CEC provided civil engineering services for the construction of a compressed natural gas (CNG) fueling station at an existing vehicle maintenance facility to support the fueling of waste collection fleet vehicles and public retail CNG customers. CEC prepared construction documents for site layout, grading and drainage design, stormwater management design, Stormwater Pollution Prevention Plans (SWPPP) and Spill Prevention, Control, and Countermeasure (SPCC) plans, pavement design, and provided stormwater management and environmental regulatory and compliance guidance for approval of improvements and CNG infrastructure.

The constructed improvements included fueling stalls for up to 50 CNG powered fleet vehicles and a retail fast-fill pump to serve the general public.



Relevance: Demonstrates CEC's multidisciplinary experience on unique specialty projects in Phoenix, and regulatory knowledge and compliance with City of Phoenix requirements. Exhibits local staff experience on City of Phoenix design and engineering, as well as application of national engineering best practices in local projects.

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100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

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



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

a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Republic Services, Inc. Environmental Services, Nationwide	On-Going	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Republic Services, Inc.	\$900K	\$900K

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

Environmental Site Assessments (ESAs): CEC has completed over 100 Phase I and II ESAs in the past 3 years and continues to assist Republic with their due diligence needs. CEC has helped to identify potential liability and operational concerns related to property transactions and company acquisitions. CEC created a client/site specific approach to address multiple updates and progress reports during the Phase I ESA process, including site specific cost estimation, permitting support, and operational considerations.



Pollution Prevention: CEC has completed multiple Stormwater Pollution Prevention Plans (SWPPP), and Spill Prevention, Control, and Countermeasure (SPCC) plans for various facilities. These plans included site specific operations recommendations and implementation methods to address compliance needs and environmental regulations.

Hazardous Materials Management: As part of CEC'S due diligence process, hazardous materials management assessments are completed on facilities with existing or future planned hazardous materials use. Utilizing CEC's experience in the waste industry, we have provided recommendations on the use and storage of hazardous materials on multiple industrial facilities. Our site reconnaissance personnel are HAZWOPER certified and understand the complexities and risks associated with hazardous material handling and disposal.

Relevance: CEC has the ability to customize our approach and scope based on site specific and client needs, manage a number of complex projects simultaneously, and apply best practices our local staff have learned from projects throughout the country. Shows extensive experience in completing Phase I and Phase II ESAs, SWPPPs, and SPCCs by our local key staff.



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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)

Civil Improvements, JBS Processing Facility Expansion Design-Build, Tolleson, Arizona

b. YEAR COMPLETED

PROFESSIONAL SERVICES
2013

CONSTRUCTION (If applicable)
2013

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER

JBS Processing Facility (Client:
Tippman Construction)

d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT

\$260K

e. TOTAL COST OF PROJECT

\$260K

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

CEC performed civil/site and transportation engineering services for this complex and fast moving Design-Build project. Site civil improvements included stormwater facilities, facility entrances, sidewalk and landscaping improvements, new water and sewer lines, a new high pressure gas line, expansion of parking areas, and a new cold storage distribution warehouse. CEC prepared roadway improvement construction documents for improvements on 91st Avenue north of Buckeye Road/MC85 and coordinated them with the City of Tolleson and MCDOT. The scope and budget included civil engineering and construction administration services based on CEC's feasibility study recommendations.



Relevance: Demonstrates recent local comprehensive grading and drainage, roadway and traffic design, gas infrastructure, site civil engineering, utility design and coordination with multiple agencies and utility owners. Shows local staff understanding of full project life cycle from planning and feasibility to final design and construction administration on an alternative delivery project.



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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)

Civil Improvements, Oregano's at Estrella Falls; Goodyear, Arizona

b. YEAR COMPLETED

PROFESSIONAL SERVICES
2014

CONSTRUCTION (If applicable)
2014

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER

Oregano's Pizza Bistro, Inc. (Client: The Macerich Company)

d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT

\$49K

e. TOTAL COST OF PROJECT

\$49K

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

CEC performed civil engineering services and prepared construction documents for paving and drainage, storm drainage facilities, water and sewer design, and parking design. CEC provided topographic and ALTA surveys, Stormwater Pollution Prevention Plans (SWPPP) and erosion control, coordination with City staff, construction administration services, and complex permitting with the utility company due to special agreements with the owner.



Relevance: Knowledge of local civil and drainage regulations, ability to obtain approvals that involved complex permitting, multidisciplinary local experience, and management of subconsultants.



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6. ADDITIONAL INFORMATION

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

Firm Overview



Civil & Environmental Consultants, Inc. (CEC) is a company of professionals founded in 1989 to provide consulting services in five broad areas: **environmental science and engineering, civil and site development engineering, ecological studies, waste management, and water resources.**

Consistently rated as one of the ENR top 500 environmental and design engineering firms in the United States, our clients have selected us to perform projects in 48 states as well as Canada, Mexico, Australia, and China.

CEC's continuing growth reflects client confidence in the work of our employees as guided by our core business principles:

- **Senior Leadership** — Applying the knowledge and experience of our senior-level personnel to define client technical, schedule and cost requirements, maintain effective progress, cost control and quality, and monitor progress toward the achievement of client business objectives.
- **Integrated Services** — Effectively and efficiently integrating CEC services with contracted services independent of project location to provide complete solutions to client business objectives.
- **Personal Business Relationships** — Developing client business relationships through superior project performance to enhance understanding of the factors required to achieve continued success for our clients and for CEC.

As an employee-owned company, CEC employees understand the professional services business and are highly motivated by the link between our success and that of our clients.

CEC has performed thousands of civil and environmental projects and has maintained strong client relationships through high quality performance and the involvement of senior-level staff. CEC provides the multi-disciplined staff experience, equipment, resources, and the dedication to quality that will be an asset to your projects.

CEC's staff consists of over 650 professionals located throughout the geographic range of our offices, including:

- Civil Engineers
- Environmental Engineers
- Sanitary Engineers
- Hydrogeologists
- Ecologists
- Wetland Scientists
- Agronomist/Soil Scientists
- Cultural Resources Professionals
- Construction Inspectors
- CAD Designers & Technicians
- Registered Landscape Architects
- Geotechnical Engineers
- Forensic Engineers
- Professional Geologists
- Hydrologists
- Biologists
- Threatened and Endangered Species Experts
- Certified Hazardous Materials Managers
- Archaeologists
- Environmental Technicians
- Registered Land Surveyors
- GIS Analysts & Programmers

CEC OVERVIEW

CEC Phoenix
11811 N Tatum Blvd, Suite 3057
Phoenix, AZ 85028
P: 602-760-2324
www.cecinc.com

FOUNDED: 1989

EMPLOYEES: 650+

LOCATIONS:

- Austin, TX
- Boston, MA
- Bridgeport, WV
- Charlotte, NC
- Chicago, IL
- Cincinnati, OH
- Columbus, OH
- Detroit, MI
- Export, PA
- Indianapolis, IN
- Knoxville, TN
- Nashville, TN
- Philadelphia, PA
- Phoenix, AZ
- Pittsburgh, PA
- Sayre, PA
- Sevierville, TN
- St. Louis, MO
- Toledo, OH

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CEC's overall capabilities are as follows:

CIVIL ENGINEERING

- Erosion & Sedimentation Control / NPDES Permitting
- Predevelopment Site Investigations
- GPS / GIS Services
- Landscape Architecture / Land Planning
- Geotechnical Engineering
- Site Grading / Earthwork Analysis
- Roadway Design and DOT Permitting
- Stormwater Management / BMP Design
- Utility Design
- Sustainability Planning / Design
- Integrated Project Delivery
- Site Infrastructure Maintenance / Rehabilitation
- Expert Witness Testimony
- Topographic Surveys
- ALTA ACSM Land Title Surveys
- Boundary Retracement Surveys
- Horizontal & Vertical Control Surveys
- Oil and Gas Pipeline Surveys
- LiDAR Surveys

ECOLOGICAL SCIENCES

- Wetlands and Waters Delineations
- Clean Water Act, 401/404 Permitting
- Wetland & Stream Impact Mitigation Design
- Ecosystem Restoration
- Wetland AMD Treatment
- Fish & Macroinvertebrate Surveys
- Bathymetric/Hydrographic Surveys
- Water Quality & Sediment Surveys
- Threatened & Endangered Species Surveys/ Wildlife Surveys
- Clean Water Act, 316 (a) & (b) Permitting
- Aquatic & Terrestrial Habitat Surveys
- Ecological Risk Assessment & Land Restoration
- Soil Science & Phytoremediation

ENVIRONMENTAL ENGINEERING AND SCIENCES

- Air Emissions Testing & Permitting
- Greenhouse Gas Reporting
- Air Dispersion Modeling
- Phase I & II Assessments
- Site Characterization
- Property Condition Assessments
- Risk Assessments
- Auditing & Compliance Plans
- RCRA/CERCLA
- Soil/Groundwater Remediation Systems
- Brownfield Redevelopment Services
- Hydrogeology & Groundwater Modeling
- Storm Water Sampling & Permitting
- NPDES Permitting Support
- Expert Witness Testimony
- Cultural Resource Management
- Architectural History (Above-ground) Resource Investigations
- Archaeological Investigations
- FERC Applications/Certification

WASTE MANAGEMENT

- Landfill Design & Permitting
- Transfer Station Design & Permitting
- Waste Characterization Studies
- Landfill Gas Management
- Geotechnical Engineering
- Renewable Energy Processes
- Air Compliance & Permitting
- Expert Witness Testimony
- Leachate Treatment & Control
- O & M of Control Systems
- Construction Services
- Site Selection and Characterization
- Hydrogeologic Site Investigations
- Environmental Monitoring/Compliance Support
- Coal Combustion Product Management

WATER RESOURCES

- Stormwater BMP Design & Inspections
- Compliance Audits
- NPDES Permit Negotiation
- Watershed Planning & Restoration
- Flood Routing and FEMA Map Revisions
- TMDL Modeling & Monitoring
- Stream Assessments & Restoration
- Water Quality & Quantity Modeling
- Low Impact Development Design
- Erosion & Sediment Control Design and Inspection
- Water Quality BMP Testing
- Waste Water and Leachate Treatment
- Stormwater Piping & Culvert Inspections
- Expert Witness Testimony



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

a. Percentage of Total Work Attributable to State, Federal and Municipal Government Work:	10%
b. Percentage of Total Work Attributable to Non-Government Work:	90%

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

Signature: Randal F. Bodnar

Date: December 30, 2014

Name: Randal F. Bodnar

Title: Vice President