



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:	Allwyn Environmental
b. FIRM (OR BRANCH OFFICE) STREET:	1 W. Deer Valley Rd, Suite 305
c. FIRM (OR BRANCH OFFICE) CITY:	Phoenix
d. FIRM (OR BRANCH OFFICE) STATE:	AZ
e. FIRM (OR BRANCH OFFICE) ZIP CODE:	85027

f. YEAR ESTABLISHED:	2004
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(g1). OWNERSHIP - TYPE:	Corporation LLC
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	Small Business Enterprise

h. POINT OF CONTACT NAME AND TITLE:	Tod Whitwer, Owner
i. POINT OF CONTACT TELEPHONE NUMBER:	623- 251-4279 (office direct)
j. POINT OF CONTACT E-MAIL ADDRESS:	twhitwer@allwynenvironmental.com

k. NAME OF FIRM (If block 1a is a branch office):	
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1. **Annual Request for Qualifications**

g. FIRM (OR BRANCH OFFICE) NAME:	Allwyn Environmental (Branch)
h. FIRM (OR BRANCH OFFICE) STREET:	7620 N. Hartman Ln, BLDG A, Ste 162
i. FIRM (OR BRANCH OFFICE) CITY:	Tucson
j. FIRM (OR BRANCH OFFICE) STATE:	AZ
k. FIRM (OR BRANCH OFFICE) ZIP CODE:	85743

l. YEAR ESTABLISHED:	2005
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(g1). OWNERSHIP - TYPE:	Corporation LLC
(g2). OWNERSHIP - SMALL BUSINESS STATUS:	Small Business Enterprise

h. POINT OF CONTACT NAME AND TITLE:	Tod Whitwer, Owner
i. POINT OF CONTACT TELEPHONE NUMBER:	623- 251-4279 (office direct)
j. POINT OF CONTACT E-MAIL ADDRESS:	whitwer@allwynenvironmental.com

k. NAME OF FIRM (If block 1a is a branch office):	Allwyn Environmental
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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)
75	Phase 1's	2
1	Mold Investigation	1
15	Mining & Mineralogy	5
6	Hydrology / Ground Water	2
5	Urban Renewals, Community Development	3
3	Environmental Assessments	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 |

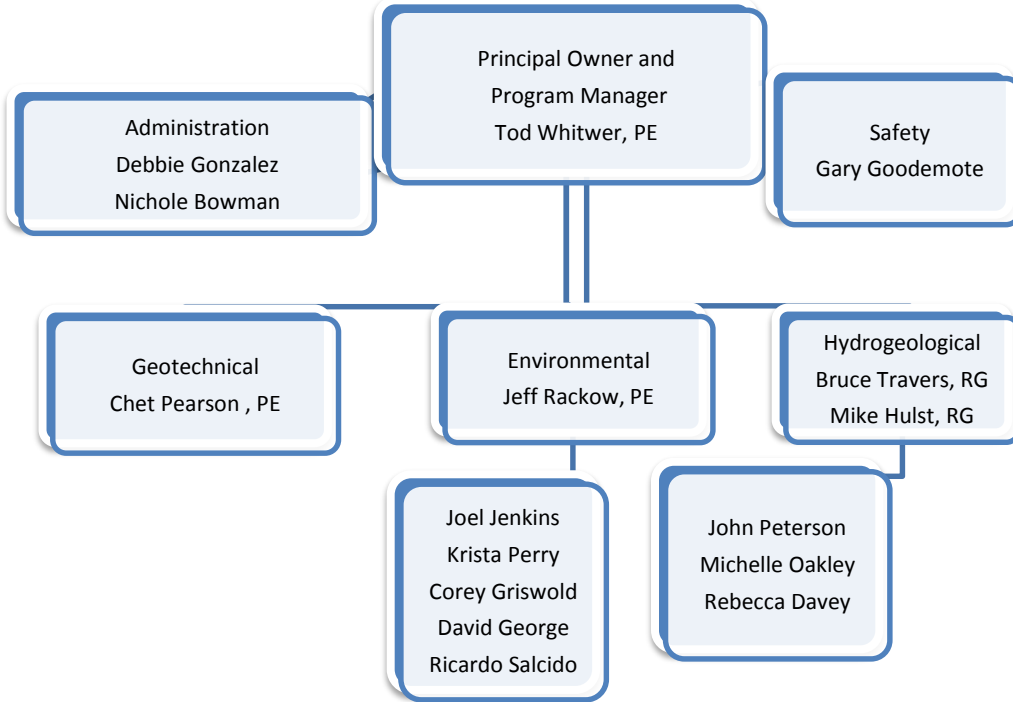


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6. ADDITIONAL INFORMATION

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



THE ALLWYN ADVANTAGE

Allwyn Environmental is an Arizona-based environmental consulting and general contracting company founded in 2004 that is a federally designated Small Business Enterprise (SBE). Our dedicated professional staff of over 30 engineers, scientists, professionals, and technicians provide our clients with customized solutions to meet their unique needs and challenges. We have provided services for a wide range of environmental projects ranging from single-task assignments to complex, multi-million dollar contracts for a diverse set of clients.

Allwyn provides meaningful solutions to our clients by:

- ✓ Understanding the project from a technical, budgetary and delivery standpoint.
- ✓ Identifying potential conflicts and challenges in the project design and planning phases.
- ✓ Listening to and understanding the client and stakeholders needs and concerns.
- ✓ Applying the best available technical expertise and information.
- ✓ Communicating project goals and information to all project team members.
- ✓ Allwyn approaches every undertaking with fairness, honesty, and accountability to our clients, advocating environmental and socially responsible solutions, building and maintaining relationships in the industry, and striving to meet or exceed our client’s needs and expectations.



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Professional & Support Staff		Geotechnical Environmental Hydrogeological																	
		Geotechnical	Environmental											Hydrogeological					
Name	Yrs. Exp.	Geotechnical Evaluations	Pavement Design/Evaluation	Construction Observation	Materials Sampling & Testing	Monitoring & Sampling	Site Assessment/Investigation	UST/LUST Investigation/Closure	Risk Assessment	Asbestos and Lead-Based Paint	Stormwater Permitting/BMP Design	Audits and Inventories	Compliance Audits/Support	Well Registration/Abandonment/Closure	Well Design/Installation/Rehabilitation	Hydrogeologic/Hydrogeologic Study	Regulatory Permitting and Compliance	Aquifer Testing	Modeling
Tod Whitwer, PE	25					X	X	X	X	X	X	X	X	X					
Mike Hulst, RG	21	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X
Chet Pearson, PE	30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Jeff Rackow, PE	23					X	X	X	X	X		X	X	X			X		
Bruce Travers, RG	37					X	X	X	X	X	X	X	X	X	X	X	X	X	X
John Peterson	27					X	X	X			X			X	X	X	X	X	
Michelle Oakley	12					X	X	X			X			X	X		X		

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:	40%
b. Percentage of Total Work Attributable to Non-Government Work:	60%

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

Signature: *Tod Whitwer* Date: December 15, 2014

Name: Tod Whitwer Title: Owner



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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	
ASARCO Ray Complex, Ray Arizona	PROFESSIONAL SERVICES 2012 to Present	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
ASARCO, LLC, Duane Yantorno, Corporate Manager	NA – Various Contracts	\$1.35 Million (to date)

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

Allwyn Environmental has been working with ASARCO to provide Aquifer Protection Permitting (APP) and Compliance Related Closure Services at ASARCO's Ray Complex.

Project Features

- ✓ Assisted with the preparation and submittal of the site-wide APP. Services performed included a multi-phased program which included preparing a draft permit for ADEQ for review; identifying facilities no longer being used; conducting preliminary engineering relative to site hydrology and drainage; and conducting construction closure remediation activities for the site.
- ✓ Phase I included preparing the sampling plan and health and safety plan for nine (9) APP permitted facilities, and two (2) detention ponds. Sampling was being conducted in preparation of closure remediation construction activities for the APP. The scope also included survey and a drainage evaluation of Ray Mine Road.
- ✓ Phase II included sampling, analysis and reporting to obtain a "Clean Closure" for the nine (9) facilities identified in Phase I. Worked with ADEQ on developing several Alternative GPLs based on site specific conditions. Remedial actions were conducted on facilities where Alternative GPLs were exceeded.
- ✓ Performed the physical removal of the six (6) APP- permitted facilities. Prepared as-built drawings as part of the scope and conducted a final survey of each facility.

Performed re-design of surface water drainage for the Ray Mine Road as well as drainage improvements to the area designated as the goat ranch pond area. Work also included preparing a final report.



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a. TITLE AND LOCATION <i>(City and State)</i> City of Tucson, AZ - Environmental Department	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES March 2005 – present	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER City of Tucson, Arizona David Barraza, Environmental Manager	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT N/A – On Call Services Contract	e. TOTAL COST OF PROJECT Project Fees: \$734,924
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f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Allwyn Environmental has completed over 100 projects over the past 9 years contracted through two on-call environmental services contracts. We have provided a wide range of services, including Phase I/II ESAs and asbestos and lead-based paint surveys. Several projects have been completed under compressed deadlines (i.e., less than 2 weeks) and outside normal working hours to avoid impacting business operations. These services have been performed within budget. In addition to these traditional services, we have provided staff augmentation services encompassing the following tasks: (1) Developed projected environmental costs associated with future Downtown Development projects and assisted in preparing report for the City Manager; (2) Provided regulatory compliance interpretation and support; (3) Assisted with development of City environmental website; (4) Prepared workshop and award submittals and presentation; (5) Prepared grant applications.



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a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
DMB, Proving Grounds, LLC. Eastmark Mesa, AZ	2014	N/A

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Eastmark DMB Mesa Proving Grounds, LLC,- Dea McDonald, Senior Vice President	N/A – Various Contracts over 7 years	Total Project Fees: \$3,823,985

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

Allwyn Environmental has been the environmental consultant for DMB at Eastmark (the site of the former General Motors Desert Proving Grounds - GMDPG) since 2007. We initially completed a Phase I ESA and Phase II assessment of the 3,200-acre automotive testing facility for environmental due diligence for potential acquisition. We evaluated several landfills, UST and AST systems, septic systems, chemical storage areas, stormwater retention areas, and other areas of concern. The initial due diligence activities were completed in 60 days, including drilling, geophysical surveys of two landfills, and performing excavation of approximately 20 acres of two separate landfills. We remediated the landfills and investigated groundwater underlying the landfills. We procured and maintained environmental permits and plans including County Dust Control, SWPPP, Waste Tire Storage, and HASP. Allwyn Environmental prepared the Closure Report and received a determination that No Further Action (NFA determination) is required at the site from ADEQ for one of the landfills and are in the process of remediating the second landfill. Allwyn Environmental conducted an Asbestos Survey of over 50 buildings covering over 1.1 million square feet of administrative and maintenance facilities. We collected over 1,200 samples of potential asbestos-containing material (ACM) and abated the materials in 25 buildings.



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a. TITLE AND LOCATION <i>(City and State)</i>	b. YEAR COMPLETED	
Las Aquas Radon Mitigation System Design and Sampling Assessment	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i>

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Scottsdale MAR LLC	Budget: \$19,350	\$12,850 (2 nd project phase pending for \$6,500)

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

Allwyn Environmental was contracted by Scottsdale MAR LLC to prepare a radon mitigation system design for applicable structures for a new apartment complex in Scottsdale, AZ. In addition, the scope of work includes post-construction sampling for radon gas and results reporting to fulfill new federal Housing and Urban Development (HUD) funding requirements for new low-rise multi-family residential housing developments.

Project Features:

Allwyn prepared an active soil depressurization radon mitigation system design in general conformance with ASTM E1465-08a for three slab-on-grade apartment buildings and a Clubhouse. The control systems were designed with pipe routing for fan-powered radon reduction to realize the benefits of unobtrusive pipe routing and of significantly higher radon reduction, compared with passive radon control systems. Design components for the radon control system included layout of sub-slab soil gas collectors/perforated piping; lateral sub-slab manifold and vertical vacuum riser piping; above grade vacuum piping routing/mounting; radon fan sizing/selection and design for potential installation on the building roofs; and design details. In addition, construction specifications were prepared to support the system design. Furthermore, post-construction radon gas sampling and results reporting will be performed consistent with ANSI/AARST designation MAMF-2012 to assess health risks against USEPA standards and the need to operate the system with radon fans.



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(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>
Tierra Del Rio Site Remediation, Peoria, AZ	2013	

23. PROJECT OWNER'S INFORMATION

c. PROJECT OWNER	d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT	e. TOTAL COST OF PROJECT
Taylor Morrison, Phillip Cross, Land Development Manage	Budget - \$155. 00	Total Cost - \$155. 00

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

Allwyn Environmental was contracted by Taylor Morrison to remediate and close a 168-acre site contaminated with lead and polynuclear aromatic hydrocarbons under the Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation Program (VRP).

Project Features

Allwyn Environmental's assessment demonstrated that portions of the site contained lead in concentrations above State of Arizona residential and non-residential Soil Remediation Levels (SRLs) and Groundwater Protection Levels (GPLs). The purpose of the site remediation activities completed under the VRP was to obtain a determination from ADEQ that No Further Action is required to remediate soil for lead and PAHs. Allwyn prepared the VRP application and ADEQ-approved Work Plan to guide site remediation activities. Served as the General Contractor for the project and self-performed the work. We performed soil sampling following site excavation and in areas that required further assessment using an incremental sampling approach. Approximately 60 tons of soil was properly transported and disposed of offsite. Allwyn also performed a risk assessment to establish site-specific soil cleanup levels for which soil could be left in place above predetermined levels, but still be protective of human health and the environment and to avoid the necessity of a Deed of Environmental Use Restriction (DEUR) to be placed on the property.



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

a. NAME Bruce Travers	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 35	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> ➤ BS, Geology, Arizona -		f. PROFESSIONAL TRAINING - REGISTRATIONS ➤ Arizona - RG # 26776 ➤ Professional Geologist- CA #GEO5795 ➤ AIPG Certified Professional Geologist # 7114	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Groundwater Investigation and Remediation at the Phoenix Goodyear Airport North (PGA-N) CERCLA Site, Crane Co., Goodyear, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Provided the groundwater investigation and remediation at the Phoenix Goodyear Airport North (PGA-N) Superfund site in Goodyear, AZ. Compounds of concern included TCE and perchlorate. Investigative activities included installation and sampling of depth-specific groundwater monitor wells for plume characterization in 3 alluvial subunits, groundwater modeling and plume capture analysis, and expansion of ongoing groundwater remediation via pump and treat.	Professional Services 2008	Construction (if applicable)
		<input type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Remedial Investigation/Remedial Action, West Van Buren WQARF Site, Prudential Overall Supply, Phoenix, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. Conducted WQARF investigation of an industrial laundry located within the boundaries of the West Van Buren WQARF site in west Phoenix. POS has undertaken a Remedial Investigation for the Site with regulatory oversight by the ADEQ. To date the site investigative activities have included passive and active soil gas studies; depth specific soil sampling; installation and radius of influence testing of 14 vapor wells; design and installation of a SVE system; installation, testing and sampling of four onsite groundwater monitor wells; and monthly/quarterly groundwater monitoring, sampling and reporting. Over 4700 pounds of total VOCs have been removed by the SVE system.	Professional Services Ongoing	Construction (if applicable)
		<input checked="" type="checkbox"/>	Check if project performed with current firm



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3.	(1) TITLE AND LOCATION (<i>City and State</i>) Remedial Investigation/Feasibility Study, Payson PCE WQARF Site, AZ Department of Environmental Quality, Payson, AZ.	(2) YEAR COMPLETED	
		Professional Services 2002	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager and Principal Hydrogeologist. Designed and managed a \$4 million remedial investigation/ early response action at the site, which was affected by a release of PCE from a local dry cleaners. The investigative activities included installation and sampling of groundwater monitor wells, borehole geophysics to better understand subsurface lithologies and structures, development of a groundwater flow model to evaluate capture zones, and the design and installation of the Expanded Groundwater Treatment System (EGST). The EGST was a state-of-the-art carbon treatment system which was capable of treating 1,300 gallons per minute with an influent concentration of 2,000 micrograms per liter (µg/L). The treated water is provided to the Town of Payson as a potable supply. An extensive community involvement campaign was conducted for the site. Mr. Travers developed a school grade (K through high school) specific educational presentations describing the groundwater remediation ongoing at the EGTS. He also actively developed informative materials for, and participated in, numerous public meetings and Community Advisory Board (CAB) functions.	<input type="checkbox"/>	Check if project performed with current firm
4.	(1) TITLE AND LOCATION (<i>City and State</i>) Remedial Investigation/Site Closure, Central Garden Pet Supply/Cardinal Health Fire, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2001	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager. Represented the property owner for a site characterization and clean-up of a warehouse fire located near 38th Street and Broadway Road. Store materials included agricultural chemicals, home and garden supplies, pool chemicals and pharmaceuticals. Extensive materials profiling and offsite disposal and incineration of stored materials. Activities included soil and fire suppressant water sampling, dry well investigation, scarification of the remaining concrete pad, and water outflow sampling at the Salt River	<input type="checkbox"/>	Check if project performed with current firm
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Remedial Investigation/Limited Groundwater Remediation, Former Plymouth Tube Company, Lone Butte Industrial Park, Gila River Indian Community, Chandler, AZ	(2) YEAR COMPLETED	
		Professional Services 1995 -Present	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager and Principal Hydrogeologist. Conducted a comprehensive Remedial Investigation for the site with regulatory oversight by Gila River Indian Community (GRIC) Department of Environmental Quality (DEQ) and EPA. To date the site investigative activities have included passive and active soil gas studies; depth specific soil sampling; depth specific groundwater sampling; installation and radius of influence testing of 12 vapor wells; installation and operation of a Soil Vapor Extraction (SVE) system; installation, testing and sampling of six shallow and four deep monitor wells; and design and operation of a limited pump and treat system utilizing Granulated Activated Carbon (GAC) and Ultraviolet (UV)/Peroxide treatment for localized groundwater remediation of VOCs and 1,4-Dioxane, respectively.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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a. NAME Chet Pearson	b. ROLE IN THIS CONTRACT Geotechnical / Project Principal	c. YEARS EXPERIENCE	
		1. TOTAL 31	2. WITH CURRENT FIRM 1

d. LOCATION (*City and State*)
Phoenix, AZ & Tucson, AZ Offices

e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>)	f. PROFESSIONAL TRAINING – REGISTRATIONS
<ul style="list-style-type: none"> ➤ BSE Civil Engineering (Summa Cum Laude) ➤ MSE Civil Engineering 	<ul style="list-style-type: none"> ➤ Professional Engineer, Civil Arizona #19709; Environmental Arizona # 33719 ➤ Professional Engineer, Civil - New Mexico, Nevada, Colorado & Utah.

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

Former Board Member of AZ State Board of Technical Registration; Member American Society of Civil Engineers

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (<i>City and State</i>) Phase I and II ESA/Remediation, Verrado Master Planned Community, Buckeye, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Project Principal. Directed an extensive Phase I and II ESA on an 8,000-acre Site formerly used for testing and maintaining heavy earth moving equipment. Site included vehicle/equipment maintenance area, numerous borrow and material processing areas, UST areas, wash racks, septic systems, groundwater wells, seepage pits, landfill areas, and asbestos-containing materials. Developed cost estimates for the excavation and off-site disposal of landfill materials, abatement of ACMs, and the remediation of impacted soils. Directed extensive remedial excavation and off-site disposal of contaminated soils, blasting materials, and landfill materials and remediation of petroleum-impacted soils by bioventing. Conducted numerous Phase I ESAs as parcels were sold to various home builders.		
2.	(1) TITLE AND LOCATION (<i>City and State</i>) CityScape Development, Red Development, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Project Manager for the completion of two Phase I ESAs for a Project Principal on a large-scale development in downtown Phoenix, Arizona. Services included reviewing all previous geotechnical and environmental reports prepared by other consultants and conducting a Phase I and II ESAs on various portions of the three city block development. Characterized and remediated a former heating oil tank, impacted soils, ACM, and solid waste materials.		



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	(1) TITLE AND LOCATION (<i>City and State</i>) Surprise Sportsman Club, Surprise, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
3.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Principal for a comprehensive Phase II Site Characterization of this former rifle, pistol, and shot gun shooting range prior to remediation. Phase II work included sampling and testing of the surface soils throughout the shooting range, the soils in the impact berms, and the surface debris in the former shotgun shooting range areas; investigating former septic system areas; and conducting a comprehensive asbestos survey of the structures on the Site. Observed and monitored the remedial activities including the excavation and off-site disposal of lead and clay target debris; the excavation, treatment, and/or off-site disposal of soils with contaminant concentrations exceeding the residential SRLs; and confirmation soil sampling and testing. Assisted the client with obtaining closure and a NFA letter from ADEQ.	<input checked="" type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) Industrial Facility, Chandler, AZ	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for assessment of a metal plating facility and compliance with a Consent Order from ADEQ. Assessed various areas identified as suspected release areas while the plant remained operational. Various process areas were found to contain soils with elevated concentrations of heavy metals and cyanide compounds. Conducted a comprehensive Phase I/II assessment of the Site to identify additional suspect areas. We assisted the client with entering Voluntary Remediation Program. Oversaw demolition and remediation of impacted soils and concrete, and we assisted the client with obtaining closure and a NFA letter from ADEQ	<input type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) Payson PCE WQARF Site: Payson, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal for the Payson PCE WQARF Site for ADEQ from 1999 to 2013. Services included quarterly to annual groundwater monitoring, sampling, and testing of numerous ADEQ, municipal, and private groundwater wells; coordination with Town of Payson; negotiating access agreements; providing well owner notifications; coordination of traffic control activities; evaluation of the test data; data validation; evaluation of groundwater trends; preparation of quarterly to annual event reports; electronic data deliveries; well maintenance and repair activities; abandonment of the Interim Groundwater Treatment System (IGTS); connection of an additional municipal well and ADEQ well to the Expanded Groundwater Treatment System (EGTS); evaluation of groundwater results and potential issues; evaluation of various In Situ Chemical Oxidation (ISCO) alternatives; and preparation of ISCO proposal to ADEQ. Mr. Pearson assisted ADEQ with the Periodic (5-Year) Review of WQARF activities including interviews of current and past ADEQ personnel, Payson representatives, and public members; coordination of community involvement; review of EGTS construction plans and specifications; review of the EGTS operations; and evaluation of the remedy performance.	<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 John Peterson	b. ROLE IN THIS CONTRACT Hydrologist	c. YEARS EXPERIENCE	
		1. TOTAL 27	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Hydrology		f. PROFESSIONAL TRAINING – REGISTRATIONS ~ Principals of Project Management, ULCA ~ Hazardous Waste Operations & Emergency Response (HAZWOPER) ~ Mine Safety and Health Administration (MSHA) ~ Occupational Safety and Health Administration (OSAH)	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i> ADEQ WQARF State Superfund Sites, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2003	Construction (if applicable)
1.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager – ADEQ, RI/FS Projects, Three Arizona WQARF State Superfund Sites, Phoenix, AZ. Supervised the RI studies for the East Grand Avenue Plume Site, the North Canal Plume Site, and the North Plume Site (Pyramid Industries facility) within the west central Phoenix area. Soil and groundwater beneath all three sites are impacted by chlorinated solvents. Managed the installation of numerous soil borings and groundwater monitoring wells, aquifer testing, groundwater modeling, and extensive negotiations with the ADEQ.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION <i>(City and State)</i> Groundwater Monitoring Program, Payson, AZ	(2) YEAR COMPLETED	
		Professional Services 2000	Construction (if applicable)
2.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager – ADEQ, Quarterly Groundwater Monitoring Program, Payson WQARF Site, AZ. Provided project coordination, data analyses, and financial tracking associated with the groundwater monitoring program (comprising 60 wells, including private wells, monitoring wells, extraction wells, and Town of Payson water supply wells) for an interim groundwater treatment system startup test.	<input type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION <i>(City and State)</i> Long-Term Response Action (LTRA) Oversight, South Indian Bend Wash (SIBW) Superfund Site, Maricopa County, AZ, U.S.EPA RAC Region 9, Various Projects	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
3.			



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<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Assisted the project manager on LTRA oversight activities at the SIBW Superfund site, where soil and groundwater are contaminated with volatile organic compounds (VOCs). Assisted with budget and schedule tracking, interpreted data, and peer-reviewed technical documents. Monitored and reported on progress of the Miller Road Treatment Facility rehabilitation program from 2009 to 2010.</p>	<input type="checkbox"/> Check if project performed with current firm				
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>AFCEE, RI/FS, US Air Force Plant 44, Tucson, AZ</p>	<p>(2) YEAR COMPLETED</p> <table border="1"> <tr> <td>Professional Services</td> <td>Construction (if applicable)</td> </tr> <tr> <td align="center">1996</td> <td></td> </tr> </table>	Professional Services	Construction (if applicable)	1996	
Professional Services	Construction (if applicable)				
1996					
<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>4. Served as Technical Manager for an RI/FS at a missile manufacturing facility with chromium- and trichloroethylene (TCE)-contaminated soil and groundwater. This effort spanned five years and required working with the Air Force, facility personnel, and regulatory agencies to develop work plans and implement the program. Provided oversight of field crews involved in soil gas and geophysical surveys, drilling, and installation of groundwater monitoring and dual extraction wells; supervised Level B test pit excavations; and managed investigation-derived wastes. Supervised aquifer tests and interpretation of results to determine the placement of wells used to monitor system performance, and supervised the installation and operation of mechanical systems for three soil vapor extraction (SVE) pilot plants. Provided technical support in negotiations with regulatory agencies including the U.S. EPA, ADEQ, and the Agency for Toxic Substances and Disease Registry (ATSDR).</p>	<input type="checkbox"/> Check if project performed with current firm				
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>The City of Phoenix Survey, City of Phoenix, AZ</p>	<p>(2) YEAR COMPLETED</p> <table border="1"> <tr> <td>Professional Services</td> <td>Construction (if applicable)</td> </tr> <tr> <td align="center">1998</td> <td></td> </tr> </table>	Professional Services	Construction (if applicable)	1998	
Professional Services	Construction (if applicable)				
1998					
<p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>5. Project Hydro-geologist –Conducted a nationwide survey to identify existing administrative groundwater plume management programs. Responsibilities included contacting each state’s regulatory agencies, determining whether or not an applicable program existed, and collecting and summarizing the appropriate information.</p>	<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 Jeff Rackow	b. ROLE IN THIS CONTRACT Senior Engineer	c. YEARS EXPERIENCE	
		1. TOTAL 24	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS Environmental Engineering, Cum Laude		f. PROFESSIONAL TRAINING – REGISTRATIONS	
		<ul style="list-style-type: none"> ➤ Professional Engineer, AZ #34613 ➤ General Engineering Contractor License, AZ #131825 ➤ ADEQ Certified UST De-commissioner, #D00335 ➤ EPA Certified AHERA Inspector, #E4841 	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i> General Motors Proving Grounds, DMB Associates, Mesa, AZ.	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
1.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Engineer and Inspector for services including environmental, and planning for assessment, remediation, closure, and redevelopment of the former GM Proving Grounds. The site is comprised of numerous buildings and test facilities and covers over 3,200 acres. Due Diligence and Site Assessment. Evaluated several landfills, UST and AST systems, septic system, chemical storage area, storm water retention areas, and other areas of potential concern. Completed due diligence activities within 60 days, including drilling, geophysical survey of two landfills, and excavation of approximately 10 acres of landfill. Landfill Remediation and Closure. Remediated Borrow Pit landfill. Over 40,000 cubic yards of soil overburden and landfill material was excavated and screened in 5 months and over 200 soil and groundwater samples were collected and analyzed. The client received a NFA determination from ADEQ for VOCs, SVOCs, PCBs, and 8 RCRA metals in soil and groundwater. Environmental Permitting. Responsible for compliance with Dust Control permit, SWPPP, and waste tire storage and disposal. Conducted Asbestos Surveys of over 50 buildings.	<input checked="" type="checkbox"/> Check if project performed with current firm	
	(1) TITLE AND LOCATION <i>(City and State)</i> West Osborn Complex State of Arizona Superfund (WQARF) Site, Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
2.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Engineer and Project Manager for the West Osborn Complex (WOC) Remedial Investigation and Feasibility Study (RI/FS). Designed and permitted two interim remediation systems for removal of trichloroethylene (TCE), and 1,1-dichloroethylene (1,1-DCE) from soil and groundwater. Remedial facilities included a groundwater pump-and-treat (P&T) system with four extraction wells and liquid-phase granular-activated carbon (GAC), and a soil vapor extraction (SVE) system with three	<input type="checkbox"/> Check if project performed with current firm	



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pairs of nested extraction wells and vapor-phase GAC. Mr. Rackow also prepared draft and final FS reports that identified and recommended remedies for both the shallow aquifer and lower sand and gravel subunit (LSGS) aquifer impacted with TCE. The shallow plume is approximately 2.4 miles long by up to 1 mile wide; the LSGS plume is approximately 2 miles long by ½-mile wide. Both completed FSs were approved by the Arizona Department of Environmental Quality (ADEQ).

	(1) TITLE AND LOCATION (<i>City and State</i>) Motorola 52nd Street, National Priority List (NPL) Superfund Site, Remedial System Evaluation for Operable Unit 1 (OU1), Phoenix, AZ.	(2) YEAR COMPLETED	
		Professional Services 2009	Construction (if applicable)
3.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Project Engineer for a comprehensive evaluation of the Integrated Groundwater Treatment Plant (IGWTP). Work included reviewing existing remedial system performance data, conducting process equipment analysis, and preparing a detailed evaluation of O&M costs (i.e., labor, energy, GAC usage, sewer discharge fees, etc.). The IGWTP, which consists of large-scale air stripping and GAC treatment facilities, had become very inefficient over time due to the reductions in groundwater pumpage and contaminant mass removal rates. Recommendations for replacing equipment in conjunction with engineering cost estimates were prepared which demonstrated that significant cost savings for future O&M could be realized by modifying process equipment and certain operational practices.	<input type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) Engineering Design Plan Peer Review - Sky Harbor Airport, SVE and Biosparging Test Facilities, Phoenix, AZ.	(2) YEAR COMPLETED	
		Professional Services 2005	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Senior Engineer for third-party technical review of a draft remedial system design. The system design consisted of numerous SVE and air sparing/biosparging wells, with nutrient delivery and percolation facilities to control and remediate a large aviation fuel free-product plume. Responsible for client communications, reviewing design drawings, evaluating proposed mechanical equipment and piping for proper sizing/selection, and preparing a technical memo with comments for improving the draft design plans.	<input type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) 19th Avenue Landfill Environmental Engineering Services, City of Phoenix Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager /Sr. Engineer/ DEUR Inspector: Mr. Rackow served as a Project Manager and Sr. Engineer for inspection of engineering controls at the City of Phoenix 19 th Avenue Landfill, a former NPL Superfund Site. The inspections are required to fulfill requirements of the Deed Environmental Use Restriction (DEUR). Mr. Rackow was responsible for performing and documenting the integrity and adequacy of maintenance for the landfill capping system, erosion control and drainage system, landfill gas extraction system, and Salt River drainage and levee system. He prepared and certified annual reports based on site inspection results, and recommended maintenance/repair actions and monitoring improvements as necessary for identified concerns as related to the conditions of engineering controls.	<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 Krista Perry	b. ROLE IN THIS CONTRACT Environmental Regulatory Specialist/ Grant Writer	c. YEARS EXPERIENCE	
		1. TOTAL 2.5	2. WITH CURRENT FIRM 2
d. LOCATION <i>(City and State)</i> Phoenix, AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> > BS Ecology and Evolutionary Biology > MS Environmental Policy And Management		f. PROFESSIONAL TRAINING - REGISTRATIONS	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> EPA Brownfields Community Wide Assessment Grant, City of Tucson, Tucson, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Grant Writer. Wrote and prepared the grant proposal for the City of Tucson for the EPA Brownfields Community Wide Assessment Grant. The grant was awarded to the tribe in May, 2014 for \$400,000, the full funding amount available under the grant.	Professional Services 2014	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			
2.	(1) TITLE AND LOCATION <i>(City and State)</i> EPA Brownfields Community Wide Assessment Grant, City of Mesa, Mesa, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Grant Writer. Wrote and prepared the grant proposal for the City of Mesa for the EPA Brownfields Community Wide Assessment Grant. The grant was awarded to the tribe in May, 2014 for \$400,000, the full funding amount available under the grant.	Professional Services 2014	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			
3.	(1) TITLE AND LOCATION <i>(City and State)</i> EPA Hazardous Waste Management Grant, White Mountain Apache Tribe, Fort Apache, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Grant Writer. Wrote and prepared the grant proposal for the White Mountain Apache Tribe for the EPA Hazardous Waste Management Grant. The grant was awarded to the tribe in September, 2013 for \$73,250, the full funding amount available under the grant.	Professional Services 2013	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			



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4.	(1) TITLE AND LOCATION (<i>City and State</i>) Ajo Grant Closure, Pima County, Tucson, AZ.	(2) YEAR COMPLETED	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager. Wrote the final closure report, completed EPA required database reporting and EPA required quarterly reports to help the client meet all federal grant requirements and successfully close out the grant project.	<input checked="" type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Route 66 Coalition Grant, Flagstaff, Winslow, Holbrook, Coconino County and Navajo County, AZ.	(2) YEAR COMPLETED	
		Professional Services Current – Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Grant Manager. Assisted the Route 66 Coalition as a grant manager by completing reports and ensuring federal deadline are met	<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 Mike Hulst	b. ROLE IN THIS CONTRACT Geologist - Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 21	2. WITH CURRENT FIRM 2
d. LOCATION (City and State) Phoenix, AZ			
e. EDUCATION (DEGREE AND SPECIALIZATION) ➤ BS Environmental Geology		f. PROFESSIONAL TRAINING – REGISTRATIONS ➤ Registered Geologist, Arizona # 37750 ➤ PC Applications of Groundwater Modeling and GIS Hydrology & Scanning Electron Microscopy Graduate Course Work.	
g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) President Arizona Hydrology Association -			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION (City and State) Environmental Services Contract, Maricopa County, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Provided environmental site assessments and investigations, remediation services, and Environmental Assessment/Impact Statements (EA/IS). Under this on-call contract, provided oversight for Phase I and II ESAs of two operating shooting ranges to assess potential environmental liabilities associated with future closure of these facilities. One Phase I area was found to have non-permitted open burn units used for the disposal of small arms ammunition, fireworks and chemical irritant agents.	Professional Services 2010	Construction (if applicable)
2.			
2.	(1) TITLE AND LOCATION (City and State) ASARCO Ray Complex Aquifer Protection Permit, Ray, AZ.	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. Managed this project for the Ray Mine Complex. The initial tasks for this project included data gathering, modification to the facility footprint, Best Available Demonstrated Control Technology (BADCT) analysis for new facilities as well as modification to several existing facilities. Subsequent tasks have included additional engineering review, drainage studies, closure plan strategies and water balance calculations. This project also included negotiating with ADEQ. Mr. Hulst used his experience and knowledge with the expedited APP program to successfully support ASARCO in the preparation of compliance schedule items in their APP as well as assisted in the preparation of a permit amendment.	Professional Services 2013	Construction (if applicable) <input checked="" type="checkbox"/> Check if project performed with current firm



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	(1) TITLE AND LOCATION (<i>City and State</i>) Expedited Aquifer Protection Permitting (APP) Program (ADEQ), Statewide, AZ.	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
3.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Principal/Project Manager. Providing APP accelerated permit assistance to contractors as requested by ADEQ. While with another firm completed several task assignments; including an individual APP for the outfall from a proposed Mine Water Treatment Plant at the Resolution Copper Mine in Superior; two individual APP amendments and two new Type 3.03 general permits for BHP Billiton’s Pinto Valley Mine in Superior, AZ; and one individual APP and three amendments for the Palo Verde Nuclear Generating System. ADEQ expanded the scope of this on-call contract to include expedited review of AZPDES permit applications. In addition, provided an expedited review of the AZPDES application for Luke AFB waste water treatment plant and the Santan Generating Station. Worked with ADEQ and applicant as well as applicants consultants to issue a permits in record time, on tasks that included reviewing technical documentation, preparation of administrative and substantive completeness letters as well as drafting the Fact Sheet and Permit language.	<input type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) UST and Hazardous Waste Management Contract, Fort Huachuca, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Program Manager. Responsible for developing project scopes, cost estimates, and managing the day-to-day activities associated with this contract. Work involved surface and subsurface soil characterizations, groundwater monitoring, modeling and investigations, landfill closure activities, disposal of investigation derived wastes, remediation system removal, risk assessment modeling, historic building evaluations, and monitoring and reporting for threatened and endangered species.	<input type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>) ASARCO Ray Complex Permit Closure Activities, Pinal County, AZ.	(2) YEAR COMPLETED	
		Professional Services 2014	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager. The project involved APP Closure of six APP-permitted facilities, which included preparation of a sampling plan, collecting samples as well as construction activities which included the removal of facility appurtenances (railing, liner, etc.) and placement of all excavation, fill, and compaction materials. This project was also part of the APP process and included negotiating with ADEQ during the closure strategy planning. Allwyn was able to compress the project schedule to meet ASARCO’s time frames relative to getting the APP application submitted to ADEQ. Allwyn’s experience with the site and with ADEQ was key to meeting ADEQ’s and ASARCO’s time frames.	<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 Michelle Oakley	b. ROLE IN THIS CONTRACT Project Manager	c. YEARS EXPERIENCE	
		1. TOTAL 13	2. WITH CURRENT FIRM 1
d. LOCATION <i>(City and State)</i> Phoenix AZ			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> ➤ BS Geology		f. PROFESSIONAL TRAINING – REGISTRATIONS ➤ MSHA, New Miner Training, Surface, Metal-Nonmetal ➤ OSHA: Hazardous Materials Safety Training	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> ASARCO, Elder Gulch French Drain Efficiency Study, Ray Mine Complex, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performed technical compilation, review, and documentation of an efficiency study for an engineered French-drain containment system. Project involved review of various data sets including daily mining operations, geophysical data, current and historic topographic data, and geochemical analytical data to determine efficiency of engineered drainage containment system.	Professional Services 2014	Construction (if applicable)
<input checked="" type="checkbox"/> Check if project performed with current firm			
2.	(1) TITLE AND LOCATION <i>(City and State)</i> DMB Associates, Eastmark Solid Waste Landfill Closure, Mesa, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performed technical compilation, review, and documentation of remediation activities for closure at a former landfill facility. Project involved review and tabulation of various data sets including groundwater, soil, and asbestos data. Results were compare to regulatory guidance and closure requirements and documented in a technical report.	Professional Services 2014	Construction (if applicable)
<input type="checkbox"/> Check if project performed with current firm			
3.	(1) TITLE AND LOCATION <i>(City and State)</i> ADEQ, 20th and Factor WQARF Site, Yuma, Arizona	(2) YEAR COMPLETED	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager performing oversight and compilation, review, and documentation of groundwater, soil, and soil vapor investigations for a large-scale tetrachloroethylene, trichloroethylene, and cyanide investigation. Project involved management of sampling and testing of over 70 groundwater monitoring and soil vapor monitoring wells; large-scale soil vapor surveys; installation of soil borings, groundwater monitoring, and remediation wells; soil vapor sampling, and well development.	Professional Services 2013	Construction (if applicable)
<input type="checkbox"/> Check if project performed with current firm			



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Conducted industrial surveys to determine past uses of adjacent properties, including soil vapor surveys and review of historical city directories. All data were used to determine the current soil, soil vapor, and groundwater characteristics, and extent of groundwater impact. Soil vapor data was used to calculate U.S. Environmental Protection Agency (EPA) risk assessment screening numbers using the 2002 Johnson & Ettinger Model. Project involved extensive quality assurance/quality control of field sampling methods, laboratory reports, and tabulated analytical results.

4.	(1) TITLE AND LOCATION (<i>City and State</i>) Wastewater Treatment Plant Expansion, Environmental Information Document and Environmental Report. Wilcox, AZ	(2) YEAR COMPLETED	
		Professional Services 2012	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Extensive environmental research and reporting for a study in order to expand a wastewater treatment plant for the City of Wilcox. Project involved documentation of the environmental report followed National Environmental Policy Act and U.S. Department of Agriculture guidelines. Reporting to Border Environmental Cooperation Commission and the EPA.	<input type="checkbox"/> Check if project performed with current firm	
5.	(1) TITLE AND LOCATION (<i>City and State</i>) Salt River Pima Maricopa Indian Community, Scottsdale, Arizona	(2) YEAR COMPLETED	
		Professional Services 2011	Construction (if applicable)
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Ongoing EPA Brownfields Investigation previously involving extensive Phase I and Phase II ESAs for Brownfields site. Compilation, review, and documentation of groundwater monitoring and soil sampling data. Project involved identification and management of unmarked small landfill with heavy metal contamination and toxaphene. Responsibilities included managing and coordinating day-to-day activities associated with the investigations at the site, including soil, soil gas and groundwater sampling, well assessment/abandonment activities, and community involvement. Coordination of field personnel and subcontractors in accordance with EPA Region IX for Sampling and Analysis Plan, Quality Assurance Project Plan, and HASP.	<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 Tod Whitwer	b. ROLE IN THIS CONTRACT Principal	c. YEARS EXPERIENCE	
		1. TOTAL 25	2. WITH CURRENT FIRM 10
d. LOCATION <i>(City and State)</i> Phoenix, AZ & Tucson, AZ Offices			
e. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> ➤ BS Chemical Engineering ➤ MBA University of Phoenix		f. PROFESSIONAL TRAINING – REGISTRATIONS ➤ Professional Engineer, Arizona # 29998 ➤ General Contractor, Arizona # 283207	
g. OTHER PROFESSIONAL QUALIFICATIONS <i>(Organizations, Awards, etc.)</i>			

H. RELEVANT PROJECTS

1.	(1) TITLE AND LOCATION <i>(City and State)</i> Brownfields Program Implementation / Manager Tucson, AZ	(2) YEAR COMPLETED	
		Professional Services 2005 – 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE As Program Manager and Senior Engineer, Mr. Whitwer completed more than 70 projects using funds from the FY 2005 and FY 2010 Brownfields Community-Wide Assessment grants for hazardous substances and petroleum products for sites. Prepared grant applications resulting in over \$1.8 million in funding for COT environmental program. Completed over 100 Phase I ESAs Completed 22 Phase II ESAs, including preparation of Sampling and Analysis Plans and Quality Assurance Project Plans that met EPA requirements; Closed wells and dry wells under ADWR and ADEQ oversight Developed projected environmental costs associated with future Downtown Development projects and assisted in preparing report for City Manager; Developed searchable Geographic Information System (GIS)-based property inventory system. Through this program, Tucson was able to redevelop numerous properties for roadway improvements, commercial uses, and recreational facilities. In addition, through our efforts, Tucson was awarded the Phoenix Award for outstanding Brownfields redevelopment.	<input checked="" type="checkbox"/>	Check if project performed with current firm
2.	(1) TITLE AND LOCATION <i>(City and State)</i> Phase 1 Environmental Site Assessments, ADOT Phoenix, AZ	(2) YEAR COMPLETED	
		Professional Services 2010	Construction (if applicable)
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the completion of two Phase I ESAs for a Maricopa Community College (MCC)-owned site and the Inland Kenworth to be acquired by ADOT. Performed Phase I ESAs in accordance with ASTM 1527-05 standard. Concluded there were no recognized environmental conditions (RECs) requiring further assessment at the MCC site. Identified four RECs at Inland Kenworth site and developed scope and budget to further assess these issues. Client performed additional assessment using the findings of Allwyn Environmental's Phase I ESA, thereby saving ADOT an estimated \$15,000.	<input checked="" type="checkbox"/>	Check if project performed with current firm



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

	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	General Motors Proving Grounds, DMB Associates, Mesa, AZ.	Professional Services 2014	Construction (if applicable)
3.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager and Lead Environmental Engineer. Mr. Whitwer has provided project management, environmental, and planning services for over 8 years for due diligence, assessment, remediation, closure, and redevelopment of the former GM Proving Grounds. The site is comprised of numerous buildings and test facilities and covers over 3,200 acres. Due Diligence and Site Assessment. Evaluated several landfills, UST and AST systems, septic system, chemical storage area, storm water retention areas, and other areas of potential concern. Completed due diligence activities within 60 days, including drilling, geophysical survey of two landfills, and excavation of approximately 10 acres of landfill. Landfill Remediation and Closure. Remediated Borrow Pit landfill. Over 40,000 cubic yards of soil overburden and landfill material was excavated and screened in 5 months and over 200 soil and groundwater samples were collected and analyzed. The client received a NFA determination from ADEQ for VOCs, SVOCs, PCBs, and 8 RCRA metals in soil and groundwater. Environmental Permitting. Responsible for compliance with Dust Control permit, SWPPP, and waste tire storage and disposal. Conducted Asbestos Surveys of over 50 buildings.	<input checked="" type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Avondale Maintenance Yard Stockpile Assessment, ADOT, Avondale, AZ	Professional Services	Construction (if applicable)
4.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager. Observed the removal and proper disposal of approximately 7,000 cubic yard soil stockpile that had accumulated over 10 years at Avondale Maintenance Yard. Identified potentially impacted soil that may pose an environmental risk or be rejected by landfill based on appearance, composition, or other suspect conditions.	<input checked="" type="checkbox"/>	Check if project performed with current firm
	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Tierra Del Rio Site Remediation, Peoria, AZ	Professional Services 2013	Construction (if applicable)
5.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Allwyn Environmental was contracted by Taylor Morrison to remediate and close a 168-acre site contaminated with lead and polynuclear aromatic hydrocarbons under the Arizona Department of Environmental Quality (ADEQ) Voluntary Remediation Program (VRP). As Project Manager <i>Mr. Whitwer's</i> assessment demonstrated that portions of the site contained lead in concentrations above State of Arizona residential and non-residential Soil Remediation Levels (SRLs) and Groundwater Protection Levels (GPLs). The purpose of the site remediation activities completed under the VRP was to obtain a determination from ADEQ that No Further Action is required to remediate soil for lead and PAHs. Allwyn prepared the VRP application and ADEQ-approved Work Plan to guide site remediation activities. We performed soil sampling following site excavation and in areas that required further assessment using an incremental sampling approach. Approximately 60 tons of soil was properly transported and disposed of offsite. Allwyn also performed a risk assessment to establish site-specific soil cleanup levels for which soil could be left in place above predetermined levels, but still be protective of human health and the environment and to avoid the necessity of a Deed of Environmental Use Restriction (DEUR) to be placed on the property.	<input checked="" type="checkbox"/>	Check if project performed with current firm