

**DEFINITIONS**

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

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

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

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

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

**SPECIFIC INSTRUCTIONS:**

1. Complete this form for each branch office seeking work under this RFQ.
  - a. – e. **Firm (or Branch Office) Name and Address.** Self-explanatory.
  - f. **Year Established.** Enter the year the firm (or branch office, if appropriate) was established under the current name.
  - g. **Ownership.**
    - (g1). *Type.* Enter the type of ownership or legal structure of the firm (sole proprietor, partnership, corporation, joint venture, etc.).
    - (g2). *Small Business Status.* A firm is a small business if the firm has less than 100 employees **or** has gross revenues of \$4 million or less.
  - h.-j. **Point of Contact.** Provide this information for a representative of the firm that the Customer can contact for additional information. The representative must be empowered to speak on contractual and policy matters.
  - k. **Name of Firm.** Enter the name of the firm.
2. **Employees by Discipline.**
  - a. Select disciplines from the List of Disciplines (Function Code) listed on Page 3 of 4 Instructions. For employees that do not qualify for any of the disciplines, select Other. *Note: The intended searchable database indicated in the RFQ will be populated from the Qualifications Form I Excel attachment only.*
  - b. Each person can be counted only twice; once for his/her primary function and once for his/her secondary function. Primary and secondary functions should be indicated by including a "P" or an "S" in column b after the Description Title is given.
  - c-d. If the form is completed for a firm (including all branch offices), enter the number of employees by disciplines in column c. If the form is completed for a branch office, enter the number of employees by discipline in column d and for the firm in column c.
3. **Profile of Firm's Experience and Annual Average Revenue for Last Year.**
  - a. Enter the approximate number of projects the firm (or branch) has done attributable by Profile Code listed on Page 3 of 4 Instructions over the last year.
  - b. Enter the appropriate Profile Codes from Instructions Pages 3 of 4 that represent the type of work the firm (or branch) has done over the last year.
  - c. Using the Revenue Index Number on Page 3 of 6 Form, indicate the approximate revenue the firm has

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earned over the last year per Profile Code entered into the table.

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

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

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

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

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

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

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

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

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

a.	FIRM (OR BRANCH OFFICE) NAME:	RBF Consulting, a company of Michael Baker Corporation
b.	FIRM (OR BRANCH OFFICE) STREET:	14725 Alton Parkway
c.	FIRM (OR BRANCH OFFICE) CITY:	Irvine
d.	FIRM (OR BRANCH OFFICE) STATE:	CA
e.	FIRM (OR BRANCH OFFICE) ZIP CODE:	92618-2027
f.	YEAR ESTABLISHED:	RBF Consulting was established in 1944. The firm was acquired by Michael Baker Corporation in 2011

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

h.	POINT OF CONTACT NAME AND TITLE:	S. Robert Kallenbaugh, P.E., CEO
i.	POINT OF CONTACT TELEPHONE NUMBER:	949-855-3689
j.	POINT OF CONTACT E-MAIL ADDRESS:	BOBK@rbf.com
k.	NAME OF FIRM <i>(If block 1a is a branch office):</i>	Michael Baker Corporation

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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
Biologist	P	2	
CADD Technician	P	29	15
Civil Engineer	P	82	45
Construction Manager	P	10	4
Construction Inspector	P	5	4
Electrical Engineer	P	4	4
Environmental Engineer	P	1	1
Environmental Scientist	P	22	10
Geodetic Surveyor	P	2	1
Geographic Information System	P	18	11
Hydrologist	P	5	4
Landscape Architect	P	2	2
Project Manager	P	1	
Structural Engineer	P	3	3
Technician/Analyst	P	80	42
Transportation Engineer	P	20	15
Water Resources Engineer	P	20	10
Other	P	170	102
<b>Total</b>		476	273

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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)
16	Bridge Design: Bridges	4
1	Conservation and Resource Management	5
18	Construction Management	5
1	Desalinization ( <i>Process and Facilities</i> )	4
34	Environmental Impact Studies, Assessments or Statements	6
7	Highways; Streets; Airfield Paving; Parking Lots	7
98	<i>Housing (Residential, Multi-Family; Apartments; Condominiums)</i>	6
6	Landscape Architecture	4
2	Office Buildings; Industrial Parks	3
4	Recreation Facilities ( <i>Parks, Marinas, Etc.</i> )	4
12	Sewage Collection, Treatment and Disposal	5
13	Solar Energy Utilization	4
75	Surveying; Platting; Mapping; Flood Plain Studies	6
26	Storm Water Handling and Facilities	7
146	Traffic and Transportation Engineering	6
50	Water Supply; Treatment and Distribution	6

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

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

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

a. NAME <b>Scott M. Taylor, P.E., D.WRE, F.ASCE</b>	b. ROLE IN THIS CONTRACT Surface Water Services	c. YEARS EXPERIENCE	
		1. TOTAL 29	2. WITH CURRENT FIRM 29
d. FIRM NAME AND LOCATION (City and State) RBF Consulting, a company of Michael Baker Corporation, Carlsbad, CA			
e. EDUCATION (DEGREE AND SPECIALIZATION) M.S., Civil Engineering, California State University at Long Beach, 1990 B.S., Civil and Environmental Engineering, California State Polytechnic University, Pomona, 1984		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Diplomate, Water Resources Engineer, 2010 AZ, Professional Engineer - Civil, 34870, 2000 CA, Construction General Permit Trainer of Record, CA, Qualified SWPPP Developer (QSD), 00054, 2010 CA, Qualified SWPPP Practitioner (QSP), 00054, 2010 CA, Professional Engineer - Civil, 43053, 1987	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Board Member, California Storm Water Quality Association; Diplomate, Water Resources Engineer; ASCE Fellow, American Society of Civil Engineers; Member, International Water Association; Member, Transportation Research Board Committee AFB 60, Hydrology, Hydraulics and Water Quality; Chair, Transportation Research Board Committee AFB 60, Water Quality Subcommittee; Member, Tau Beta Pi; Member, Phi Kappa Phi; Member, Chi Epsilon; Awards: 2001, Engineer of Merit, ASCE; 2002, Engineering Merit Award, OCEC			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>Caltrans On-Call Technical and Professional Storm Water Services (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: Caltrans. Role: Task Manager. Under a three-year contract with Caltrans, RBF provided on-call statewide stormwater services. Work was related to continued development and refinement of Caltrans' statewide Storm Water Management Program with a goal to integrate appropriate stormwater control activities into ongoing activities and thus make control of stormwater pollution a part of Caltrans' normal business practices. \$13,000,000 (Fee Estimate)</i>		
2)	(1) TITLE AND LOCATION (City and State) <b>Caltrans On-Call Storm Water Quality (Los Angeles and Ventura Counties, CA)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: Parsons Transportation Group. Role: Program Manager. RBF was part of the team chosen by Caltrans for a five-year, \$15 million contract for the preparation of Stormwater Treatment Devices Best Management Practices Corridor Studies in northern District 7. \$5,000,000 (Fee)</i>		
3)	(1) TITLE AND LOCATION (City and State) <b>Caltrans Statewide TMDL Assistance Strategic Planning (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: Caltrans. Role: Principal-In-Charge. Responsibilities included overall project oversight. RBF Consulting, a company of Michael Baker Corporation, has been assisting Caltrans in addressing issues pertaining to total maximum daily loads (TMDLs) throughout the State of California since 2005. RBF provided professional services to review and develop comments on documents developed by the state water resources control board (SWRCB) and the nine regional water quality control boards (RWQCBs) in their development of TMDLs. RBF also supported Caltrans staff during meetings, workshops, and public hearings with the RWQCB and SWRCB. RBF provided strategic planning and suggested courses of action for Caltrans based on the requirements of the TMDL, their associated implementation plans and schedules. \$1,280,000 (Fee)</i>		
4)	(1) TITLE AND LOCATION (City and State) <b>Grading, Erosion and Sediment Control Manual Update (Sacramento, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: City of Sacramento. Role: Project Manager. RBF was retained by the City of Sacramento to update the City's Administrative and Technical Procedures Manual for Grading, Erosion and Sediment Control. RBF's scope of work included updating existing Best Management Practice (BMP) Fact Sheets, development of additional BMP Fact Sheets, developing erosion, sediment and pollution control plan checklists, technical editing, updating chapters and compilation of the City's Administrative and Technical Procures Manual. Focus was maintained on achieving compliance with the Statewide Construction General Permit while incorporating practical considerations of standard "day to day" design practices, local plan checking procedures, and construction methods. \$60,000 (Fee)</i>		

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

c. NAME <b>Anna Y. Lantin, PE, CPESC, CPSWQ</b>	d. ROLE IN THIS CONTRACT Surface Water Services	c. YEARS EXPERIENCE	
		2. TOTAL 24	2. WITH CURRENT FIRM 15
d. FIRM NAME AND LOCATION (City and State) RBF Consulting, a company of Michael Baker Corporation, Irvine, CA			
e. EDUCATION (DEGREE AND SPECIALIZATION) Graduate Studies, Colorado State University B.S., Civil Engineering, Colorado State University, 1990		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) CA, Professional Engineer - Civil, 55043, 1996 AZ, Professional Engineer - Civil, 34529, 2000 CA, Certified Inspector of Sediment & Erosion Control, 2781, 2004 Certified Professional Storm Water Quality, 0079, 2004	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Rebecca Kinney and Anna Lantin, "Coastal Community Incorporates Sustainable Design", Urban Water Management, July, 2007 Chair, California Stormwater Quality Association (CASQA) BMP Subcommittee; Member, International Erosion Control Association; Member, American Society of Civil Engineers			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>Caltrans Enforcement Action Tracking (Contract No. 43A0182 - Task Order 26) (Statewide, California)</b>	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client:</i> Caltrans. <i>Role:</i> Task Order/Contract Manager. RBF has been assisting Caltrans headquarters with tracking and assessing enforcement actions issued to Caltrans. RBF has collected information on over 350 current and historic Regional Water Quality Control Board enforcement actions (1998-2008) for violations of the Caltrans Statewide Stormwater Permit, Order No. 99-06-DWQ. \$400,000 (Fee)		
2)	(1) TITLE AND LOCATION (City and State) <b>Caltrans Statewide TMDL Assistance Strategic Planning (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client:</i> Caltrans. <i>Role:</i> Task Order/Contract Manager. Responsibilities included overall project oversight. RBF Consulting, a company of Michael Baker Corporation, has been assisting Caltrans in addressing issues pertaining to total maximum daily loads (TMDLs) throughout the State of California since 2005. RBF provided professional services to review and develop comments on documents developed by the state water resources control board (SWRCB) and the nine regional water quality control boards (RWQCBs) in their development of TMDLs. RBF also supported Caltrans staff during meetings, workshops, and public hearings with the RWQCB and SWRCB. RBF provided strategic planning and suggested courses of action for Caltrans based on the requirements of the TMDL, their associated implementation plans and schedules. \$1,280,000 (Fee)		
3)	(1) TITLE AND LOCATION (City and State) <b>Caltrans Statewide On-Call Storm Water Management (Contract No. 43A0286), (Statewide, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client:</i> Caltrans. <i>Role:</i> Project Manager. RBF provided stormwater management for a variety of projects in California. Projects included renewal of the statewide National Pollutant Discharge Elimination System (NPDES) permit, response to a U.S. Environmental Protection Agency audit, total maximum daily load (TMDL) allocations, development of water quality standards, areas of special biological significance (ASBS), and construction general permit. \$20,000,000 (Fee)		
4)	(1) TITLE AND LOCATION (City and State) <b>Qualified SWPPP Developer/Qualified SWPPP Practitioner Services (Statewide, California)</b>	(2) Year Completed	
		Professional Services Ongoing	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Various Clients.</i> <i>Role:</i> Task Manager. RBF and its partners have provided QSD/P services for multiple clients on a wide variety of construction projects ranging all risk levels and project types. Services included: emergency construction stormwater assistance, full QSD/P services, peer review of SWPPPs, QSP oversight services, best management practice (BMP) installation oversight, erosion and sediment control plan design and recommendations, field sampling, and contractor coordination.		

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

e. NAME <b>John McCarthy, PE, CFM</b>	f. ROLE IN THIS CONTRACT Surface Water Services	c. YEARS EXPERIENCE	
		3. TOTAL 25	2. WITH CURRENT FIRM 25
d. FIRM NAME AND LOCATION (City and State) RBF Consulting, a company of Michael Baker Corporation, Irvine, CA			
e. EDUCATION (DEGREE AND SPECIALIZATION) B.S., Civil Engineering, California Polytechnic State University, San Luis Obispo, 1989 Certificate, Light Construction and Development Management, 1997		f. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) CA, Professional Engineer - Civil, 47583, 1991 NV, Professional Engineer - Civil, 15419, 2002 AZ, Professional Engineer - Civil, 62906, 2010 Certified Floodplain Manager, US-05-01596, 2005	
g. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Member, California Alluvial Fan Task Force (appointed by the Director, State of California Department of Water Resource); Member, ASCE; Member, Society of American Military Engineers (SAME); Member, Association of State Floodplain Managers (ASFPM); Member, Floodplain Management Association (FMA); Member, American Council of Engineering Companies, California (ACEC); RBF "Excellence in Teamwork" Award Winner			

**H. RELEVANT PROJECTS**

1)	(1) TITLE AND LOCATION (City and State) <b>Caltrans On-Call Technical and Professional Storm Water Services (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: Caltrans. Role: Project Manager. Under a three-year contract with Caltrans, RBF provided on-call statewide stormwater services. Work was related to continued development and refinement of Caltrans' statewide Storm Water Management Program with a goal to integrate appropriate stormwater control activities into ongoing activities and thus make control of stormwater pollution a part of Caltrans' normal business practices. \$13,000,000 (Fee Estimate)</i>		
2)	(1) TITLE AND LOCATION (City and State) <b>Laguna Canyon Creek Erosion Protection and Habitat Restoration Project (Orange County, CA)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: City of Laguna Beach. Role: Project Manager. RBF provided planning, design, and permitting for the construction of a long-term erosion protection and habitat restoration within Laguna Canyon Creek that traverses a City owned parcel along Laguna Canyon Road. The site houses the City Animal Shelter and the Pacific Marine Mammal Center. The erosion of the creek banks are threatening the animal shelter facility and undermining the parking lot. The erosion protection project will protect the facilities, improve the flow characteristics of the creek, enhance and restore habitat, and reduce flooding potential without negatively affecting upstream or downstream properties. \$200,000 (Fee)</i>		
3)	(1) TITLE AND LOCATION (City and State) <b>Buck Gully Canyon Restoration Project - Engineering and Environmental Services (Newport Beach, CA)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: City of Newport Beach. Role: Project Manager. Responsible for project management. RBF Consulting, a company of Michael Baker Corporation, provided planning, design, and permitting for the construction of erosion control improvements for the stabilization and restoration of Lower Buck Gully. The canyon had been experiencing significant erosion in recent years as a result of urbanization within its watershed boundaries. The proposed project included the reconstruction and restoration of Lower Buck Gully channel through the use of grade control structures and bendway weirs. \$458,000 (Fee)</i>		
4)	(1) TITLE AND LOCATION (City and State) <b>Santa Paula Creek Watershed Planning Project (Ventura County, CA)</b>	(2) Year Completed	
		Professional Services 2013	Construction (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <i>Client: Santa Paula Creek Fish Ladder Authority. Role: Project Manager. Responsible for hydrologic and hydraulic engineering, including the development and calibration of HEC-HMS and HEC-RAS computer models, for the detailed evaluation of the watershed and creek. RBF performed a watershed assessment and feasibility study to develop comprehensive recommendations for restoration of fish passage and stabilization of the main stem of Santa Paula Creek, while maintaining water diversion rights, for the California Department of Fish and Game and the Santa Paula Creek Fish Ladder Authority. RBF provided hydrologic and hydraulic engineering modeling, habitat evaluations, development of potential project alternatives, and preparation of a watershed planning study. \$498,000 (Fee)</i>		

**RFQ# ADSPO14-00003465, Annual Request for Qualifications and Experience  
REVISED - Attachment I – General Qualifications**

**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>Arizona Department of Transportation Statewide NPDES MS4 Permit Compliance (State of Arizona)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER Ninyo & Moore (Client)	d. DOLLAR AMOUNT OF PROJECT \$70,000 (RBF Fee)	e. TOTAL COST OF PROJECT \$70,000 (RBF)	

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

RBF assisted the Arizona Department of Transportation (ADOT) with a compliance audit of the ADOT Statewide National Pollutant Discharge Elimination System (NPDES) Permit. The US Environmental Protection Agency (EPA), Region 9, continues to audit Municipal Separate Storm Sewer System (MS4) programs within the Region. Among the MS4s being audited is ADOT.

RBF provided permits and policy technical assistance to ADOT's Office of Environmental Services with program-level and District-level preparation of the EPA. Tasks included field and technical review, guidance, and recommendations on improvements on key elements of ADOT's stormwater program including construction, operation and maintenance, post-construction and design practices related to stormwater management.

RBF assessed ADOT's program, identified areas of improvement through review of key documents including Arizona's Statewide NPDES permit and the Statewide Stormwater Management Plan (SWMP), Monitoring Plan, and Annual Report, as well as ADOT's overall stormwater program organizational structure, past enforcement actions, and other information relevant to the operation of their stormwater management program. The review identified potential improvements needed at a program-level and District-level implementation.



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

**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>Caltrans On-Call Technical and Professional Storm Water Services (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER California Department of Transportation (Caltrans)	d. DOLLAR AMOUNT OF PROJECT \$13,000,000 (RBF Fee)	e. TOTAL COST OF PROJECT \$13,000,000	

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

Continuously since 1998, RBF has provided on-call statewide storm water services related to policy development, strategic planning and permit implementation for Caltrans' statewide storm water management program. Under Contract 43A0286, a three-year, on-call statewide storm water services contract with a limit of \$13 million in fees, RBF worked with Caltrans to integrate appropriate storm water control activities into ongoing activities and thus make control of storm water pollution a part of Caltrans' normal business practices. Under the various tasks of this contract, RBF worked closely with Caltrans to provide:

- NPDES Program Management, Development, Compliance, Policy, and Strategic Planning
- Assist with negotiations for renewing its NPDES Permit and Construction General Permit
- Revise and expand its statewide Storm Water Management Plan (SWMP), which describes the procedures and practices the Department uses to reduce the discharge of pollutants to storm drainage systems and receiving waters
- Review, provide comments, and create presentations for statewide and regional storm water permit issues (Ocean Protection, Statewide Trash Amendment, TMDLs, ASBS, General Permits)
- Prepare its Storm Water Program Annual Report, which reports on the activities that Caltrans has undertaken in the previous fiscal year to implement the SWMP and District Workplans
- Strategic Planning and field assessment for the California Ocean Plan and Areas of Special Biological Significance (ASBS) compliance
- Identify pollutants of concern in storm water runoff from Caltrans facilities and develop research planning studies of such constituents
- Identify, evaluate, and approve various types of Best Management Practices (BMPs) and implement them into the design, construction, and maintenance of highway facilities
- Develop standardized cooperative agreements and liaison to Watershed Stakeholders
- Collaboration with State Water Resource Control Board (SWRCB) on Total Maximum Daily Load (TMDL) requirements and Strategic Planning for implementation
- Provide technical assistance to the Construction Storm Water Team
- Public Education (Don't Trash California), Public Outreach to Industry, Contractors, Staff Training
- Conducted statewide Characterization and Hot Spot Studies, and Peer Review of Scientific Studies
- Storm Drain System Inventory using GIS, Treatment BMP inventory, Non-stormwater Runoff Investigations

**Training activities include:**

- The overall Department strategy for providing storm water and related training to its employees and construction contractors
- Program Effectiveness Assessment Training for all NPDES Staff and Divisions
- Outreach to Industry, Caltrans Partners, and Management through Webinars
- BMP Tools educational website for BMP design for Transportation Engineers
- Construction General Permit Training by State Water Board/CASQA Trainers-of-Records
- Operation and Maintenance of Treatment BMPs Guidance

**Total Maximum Daily Loads and Watershed Programs:**

- Statewide TMDL assessment, risk evaluations, and Basin Plan Amendments response
- TMDL Strategic Planning, Resource Evaluation, and Management
- TMDL Special Studies/Assessment (Lake Tahoe Pollutant Load Reduction Model, Big Bear Nutrients, Bacteria Field Investigation)
- Trash TMDL Compliance, Trash Load reduction Calculations (Los Angeles and San Francisco Regions)
- TMDL Assessment, GIS Analysis, and Reporting
- Pollutant Load Modeling
- Watershed Program and Stakeholder Group Participation Liaison Assistance



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

**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>Caltrans Statewide Permit / Policy Stormwater Program Development and Implementation Assistance, (Statewide, California)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER California Department of Transportation (Caltrans), Division of Environmental Analysis Headquarters	d. DOLLAR AMOUNT OF PROJECT \$1,000,000 (Approximate combined RBF Fee)	e. TOTAL COST OF PROJECT \$1,000,000 (Approximate RBF total)	

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

RBF contracted with the State of California, Department of Transportation (Caltrans) for the on-call statewide storm water services contract. Work under this contract was related to policy development, strategic planning, permit implementation, continued development and refinement of Caltrans' statewide Storm Water Management Program. The goal of the effort is to integrate appropriate storm water control activities into ongoing activities and thus make control of storm water pollution a part of Caltrans' normal business practices. Under the various tasks of this contract, RBF worked closely with Caltrans to:



- Assist with negotiations for renewing its National Pollutant Discharge Elimination System (NPDES) Permit and Construction General Permit
- Revise and expand its statewide Storm Water Management Plan (SWMP), which describes the procedures and practices the department uses to reduce the discharge of pollutants to storm drainage systems and receiving waters
- Environmental Protection Agency (EPA) Audit Response / Technical Guidance
- Review, provide comments, and create presentations for statewide and regional storm water permit issues
- Prepare its Program Effectiveness Assessment / Storm Water Program Annual Report, which reports on the activities that Caltrans has undertaken in the previous fiscal year to implement the SWMP
- Prepare its Districts' Regional Work Plans, which describe the activities that Caltrans Districts will undertake in the next fiscal year to implement the SWMP
- Identify pollutants of concern in storm water runoff from Caltrans facilities and develop research planning studies of such constituents
- Identify, evaluate, and approve various types of Best Management Practices (BMPs) and implement them into the design, construction, and maintenance of highway facilities
- Develop standardized cooperative agreements
- Review requirements, track progress, and develop strategic plans to comply with regulations prescribed by State Water Resource Control Board (SWRCB) on Total Maximum Daily Load (TMDL) requirements
- Provide technical assistance to the Construction Storm Water Team

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REVISED - Attachment I – General Qualifications**

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

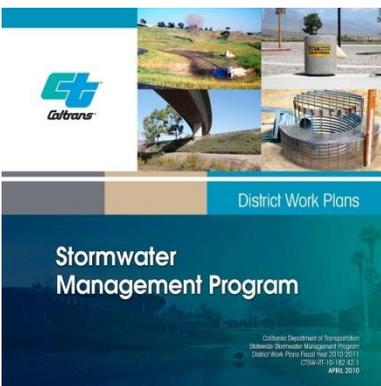
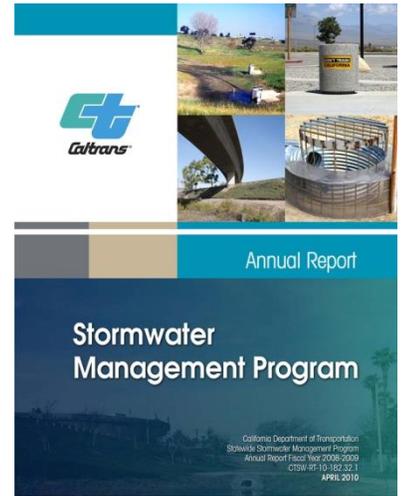
*(Present no more than five (5) projects. Complete one Section 5 for each project.)*

a. TITLE AND LOCATION <i>(City and State)</i> <b>Storm Water Management Program Annual Report and Regional Work Plan Assistance (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2005-Present	CONSTRUCTION <i>(If applicable)</i>
<b>23. PROJECT OWNER'S INFORMATION</b>			
c. PROJECT OWNER California Department of Transportation (Caltrans), Division of Environmental Analysis Headquarters	d. DOLLAR AMOUNT OF PROJECT \$300,000 (Estimated Total/Year)	e. TOTAL COST OF PROJECT \$300,000/year (estimated)	

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

The RBF team is supporting and assisting the California Department of Transportation (Caltrans) Storm Water Management Program in developing its Annual Report and accompanying 12 District Regional Work Plans. A requirement of the National Pollutant Discharge Elimination System (NPDES) Permit, the Annual Report reports on the activities that the Department has undertaken in the previous fiscal year to implement the Department's Statewide Storm Water Management Plan (SWMP) and includes:

- Overview - An overview of the Annual Report
- Program Management - Storm Water Management Program responsibilities and coordination with other NPDES permittees and stakeholders
- Best Management Practice (BMP) identification and implementation
- Project Delivery Storm Water Management Program - Functions of highway facility project design and construction
- Maintenance Storm Water Management Program - How the Maintenance Division manages BMPs, treatment BMPs, and non-storm water discharges
- Training and Public Education Program - How the Department outreaches to the public to inform and educate about the importance of storm water management
- Monitoring and Research Program - How the Department monitors BMPs and conducts research on new treatment control technologies
- Program Evaluation - How the Department audits its program
- Reporting - How the Department reports its progress on program activities
- Location-Specific Requirements



The Regional Work Plans describe the activities that the Department Districts will undertake during the next fiscal year to implement the SWMP and include:

- Introduction - Overview of the Regional Work Plan
- Department Personnel and responsibilities
- District facilities and water bodies addressed in the Regional Work Plan
- High Risk Areas - District projects that occur in sensitive areas
- Implementation Activities - BMPs the District plans to use

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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>Caltrans On-Call Technical and Professional Storm Water Services (Contract Nos. 43A0182 and 43A0286) (Statewide, California)</b>		b. YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i>
23. PROJECT OWNER'S INFORMATION			
c. PROJECT OWNER California Department of Transportation (Caltrans), Division of Environmental Analysis Headquarters	d. DOLLAR AMOUNT OF PROJECT \$1,280,000 (RBF Fee)	e. TOTAL COST OF PROJECT \$1,280,000	

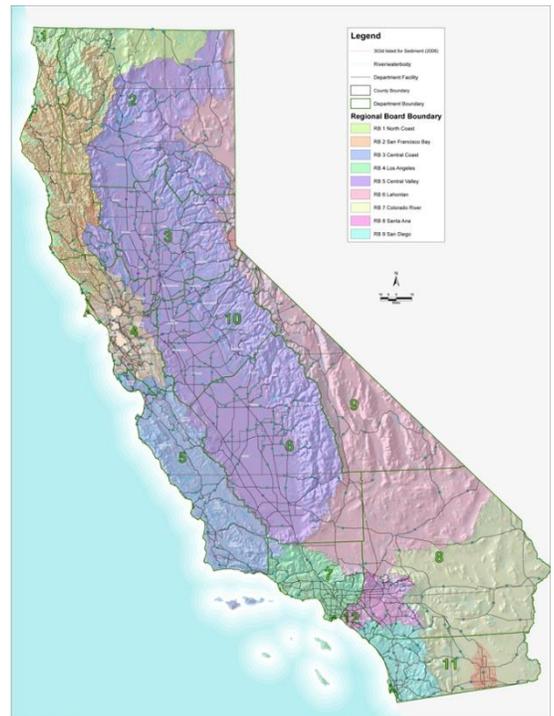
f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

RBF has been assisting Caltrans in addressing issues pertaining to Total Maximum Daily Loads (TMDLs) throughout the State of California since 2005. Compliance needs for over 70 adopted and near-adopted TMDLs were developed and currently over 600 additional TMDLs are being developed.

RBF is providing professional services to review and develop comments on documents developed by the State Water Resources Control Board (SWRCB) and the nine Regional Water Quality Control Boards (RWQCBs) in their development of TMDLs. The SWRCB and the RWQCBs set standards for water quality within their areas of jurisdiction. In addition to review of TMDL draft documents, RBF also supports Caltrans staff during meetings, workshops and public hearings with the RWQCB and SWRCB.

RBF also provided Strategic Planning and suggested courses of action for Caltrans based on the requirements of the TMDL, their associated implementation plans and schedules. Strategic Plans have been developed for several TMDLs including the Lake Tahoe Clarity TMDL, Los Angeles River TMDLs, Ballona Creek TMDL, and more. Strategies focused on BMP compliance, recommendation on approaches (near term and long term strategies), source control, municipal coordination, treatment control, monitoring, and prioritization of actions.

TMDLs evaluated and assistance provide to the Caltrans Districts include: LA River TMDL, Ballona Creek TMDL, San Francisco Bay TMDL, Chollas Creek TMDL, Lake Tahoe Clarity TMDL, Truckee River TMDL, North Coast Sediment TMDLs, Santa Monica Bay TMDLs, Southern California Beaches Bacteria TMDL, Lake Elsinore Nutrients TMDL, Big Bear Nutrients TMDL, and many more.



## 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

RBF Consulting (RBF), a company of Michael Baker Corporation, is a full-service consulting firm providing planning, engineering, surveying, and related professional services. The overall expertise of RBF includes: civil, structural, mechanical, and electrical engineering; land development; transportation and traffic engineering; water and wastewater engineering; environmental planning; survey and mapping; GIS; architecture, land use planning, urban design, and landscape architecture; and construction management services.



RBF was established in 1944, and has been incorporated in California since 1961. In October 2011, RBF was acquired as a wholly-owned subsidiary of Michael Baker Corporation (Baker). Baker recently became part of Michael Baker International, LLC, a leading provider of end-to-end engineering, development, intelligence and technology solutions with global reach and mobility.

### SURFACE WATER EXPERTISE

RBF is a leader in providing integrated surface water services by combining flood control, water quality, hydromodification, stormwater management, and water resources engineering into comprehensive solutions to deliver sustainable projects that promote the use and reuse of water within a watershed. The firm's approach to address today's water resource challenges utilizes a unique planning process - integrating all aspects of water resources management: policy development; land use; environmental services; civil engineering; storm water quality; water supply; wastewater; flood management; environmental planning; and regulatory permitting services.

Surface water services offered include:

#### **Flood Control / Storm Water Planning and Design**

- Runoff Management Plans
- General Plan
- Specific Plan
- Master Plan
- Hydromodification Management Plans / Mitigation
- Water Quality Technical Report (Environmental Docs)
- Alluvial Fan Assessment
- Urban Drainage Facilities
- Erosion Control
- Flood Control Engineering
- Riparian / Wetland Design
- Extended Detention Basins
- River Engineering
- Stream Bank Protection
- Stream Restoration
- Levee / Dam Design
- Regional Flood Protection Systems
- Hydrologic / Hydraulic Modeling
- Hydrologic / Hydraulic Analysis and Design
- Sediment Transport Studies
- Flood Damage Assessment
- Storm Drain Facility Design
- Floodplain Management Program
- FEMA Floodplain Mapping / Risk Assessment
- FEMA CLOMR/LOMR
- Dam and Detention Basin Routing / Design
- Natural Treatment System (NTS) Basin Design
- Dam Break Analysis
- Debris & Sediment Yield Sediment Transport
- Fish Passage
- Location Hydraulic Studies
- Regional Frequency Analysis
- Erosion Control Bridge Scour Assessment
- Outlet Scour Protection Channel Stabilization
- Construction Plan Preparation
- Construction Specification Preparation
- Construction Support

#### **Storm Water Quality**

- Municipal Storm Water Program Development
- Storm Water Management Programs
- Storm Water Pollution Prevention Plans (SWPPPs)
- NPDES Compliance
- Water Quality Management Plan (WQMP / SUSMP)
- Storm Water Data Report (Caltrans)
- Storm Water Pollution Prevention (SWPPP)
- NOI/NOC Filings
- Permit Public Comment Assistance
- Permit Compliance
- Site Inspections - Construction
- Site Inspections - Existing Facilities
- BMP Research / Application
- BMP Retrofit Studies
- BMP Design and Construction
- Water Quality Monitoring
- Water Quality Modeling
- Outreach, Education and Training
- TMDL Development and Implementation
- MS4 Program Development

#### **Watershed Management**

- Watershed Management / Implementation Plans
- Watershed Characterization
- Water Quality Modeling
- Outreach / Stakeholder Facilitation
- Policy Formulation
- Interagency Agreements
- Decision Making / Prioritization Tools
- Integrated Water Resources Planning
- Grants / Funding Agreements
- Complex Watershed Assessment
- Watershed / Stream Corridor Planning

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**Ecosystem Restoration / Wetlands Permitting**

- Delineation
- Rapid Assessment
- Alternatives / Feasibility
- State / Federal Permitting
- Mitigation
- Coastal Compliance
- Riparian / Wetland Restoration
- Wetlands Creation / Habitat Restoration
- Wetland Management

**Ancillary Services**

- Sustainability / Low Impact Development
- Water Supply / Wastewater Engineering
- Landscape Architecture
- Environmental Planning
- Regulatory Permitting
- Visual Analysis
- Construction Management
- Land Surveying/Mapping
- GIS

**Programs**

- Storm Water Management Plans (SWMP)
- Total Maximum Daily Loads (TMDLs)
- Grant Funding Applications
- NPDES Program Annual Reporting
- Low Impact Development
- Watershed Management Policy

**Water Resources Services**

RBF has significant experience with flood management design criteria, watershed modeling techniques, storm water system requirements, storm water pollution control and assessment, agency processes, and regulatory issues. RBF offers technical excellence and innovative problem solving within the context of an effective, proven management approach in addition to the requirements associated with environmental and storm water quality regulations. The RBF Team brings together experts in the field of watershed management and flood control engineering to accomplish these goals. We are a leader in providing integrated surface water services combining flood risk management, water quality, hydromodification, stormwater harvest and reuse, groundwater recharge and potable and reclaimed water resources into comprehensive projects with the objective of sustainable projects that promote the use, and reuse of water within the watershed.

**Flood Hazard Mitigation/Management Services**

RBF has an extensive background in the development of comprehensive flood management engineering and stormwater management programs. Our objectives focus on the development of a functional system providing the necessary level of flood protection, while addressing multi objective issues of stakeholders in the watershed. RBF offers technical excellence and innovative problem solving within the context of an effective, proven management approach in addition to the requirements associated with environmental and stormwater quality regulations.

RBF emphasizes a watershed approach which refers not only to the physical watershed, but to the idea of managing water resources proactively at the most appropriate system scale. We believe that efficient and sustainable resources management requires the integration of multiple disciplines and thinking beyond jurisdictional boundaries. Our objective is to develop sustainable water resources projects that emphasize a balance of water use and reuse within the watershed. This includes rainwater harvesting, groundwater recharge, recycled water, and low impact development approaches.

**Water Quality Services**

The RBF Team's water quality capabilities include the development of surface water quality plans, research relative to Best Management Practices (BMPs) effectiveness, BMP siting, design, construction, construction management and operation, maintenance and monitoring. Furthermore, RBF has completed studies relative to BMP effectiveness and cost including prototype studies relative to operation and maintenance cost and capital costs evaluation for new construction and retrofit construction.

RBF Team members have successfully designed and implemented treatment BMPs including: media filters, infiltration basins, infiltration trenches, constructed wetbasin/wetlands, vegetated swales and strips, natural treatment systems (NTS), and extended detention basins, bioretention and manufactured treatment devices.

**Environmental Engineering Services**

Sustainable designs minimize short and long term environmental impacts of development activity through resource conservation, recycling, waste minimization and the utilization of energy efficient and ecologically responsible materials and techniques during construction.

In addition to having a number of LEED Accredited employees, RBF has unique experience in BMP research, BMP effectiveness, and retrofit of structural BMPs in existing public works infrastructure. We have completed studies and investigations into hypothetical retrofit scenarios, as well as conducted field prototype studies into BMP effectiveness and cost for the following technologies:

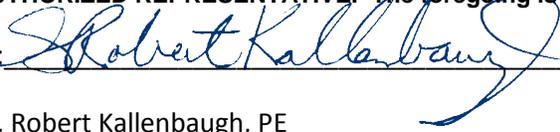
- Extended detention basin
- Infiltration basins and trenches
- Vegetated swales and strips
- Drain inlet filters
- Coalescing plate oil/water separators
- Multi-chambered treatment train
- Austin and Delaware sand filters
- Wet extended detention ponds
- Continuous Deflective Separators (CDS®)
- Stormfilter®
- Permeable Pavement
- Variety of erosion control products including PAM

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

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

Signature: 

Date: December 11, 2013

Name: S. Robert Kallenbaugh, PE

Title: CEO