TETRA TECH

November 13, 2012

Ms. Betty Landrum
Division of Central Purchasing
Room 338, Government Center
200 East Main Street
Lexington, KY 40507

Attn.: Selection Committee

**RE: Tetra Tech Proposal (RFP #33-2012)**
*Category 1 – Equalization Tanks or Basins*

**Point of Contact**
Mr. Richard W. Walker, P.E., CFM
800 Corporate Drive, Suite 200
Lexington, KY 40503
Office: (859) 514-8749
Cell: (859) 619-8013
richard.walker@tetratech.com

Dear Selection Committee Member:

Tetra Tech has exceptional qualifications to successfully implement your equalization tanks or basins. Our project team has completed multiple wet weather facilities that are specifically designed to eliminate or control sanitary sewer overflows (SSOs) and combined sewer overflows (CSOs). These facilities have special operational needs due to their intermittent operation and their management of wastewater. Our team also has extensive experience with a wide range of structures – providing flexibility to you in the type of tank that is used for these projects. We have implemented reinforced concrete tanks (subsurface and partially buried) as well as prefabricated above grade tanks (prestressed concrete, aluminum and steel) for both wet weather flow management and water storage. These facilities include both small tanks and some of the largest in the country. As a result, we have identified strategies to reduce capital cost, minimize operations and maintenance requirements, and provide facilities that blend well with the surrounding land uses.

We fully understand the EPA deadlines and reporting requirements of the Consent Decree. We have been on your Consent Decree Program Management Team since 2008 and work closely with the Division of Water Quality staff and the other program management consultants. During this time, we have demonstrated our ability to deliver high-quality products, on schedule, and within budget. For example, as part of the Consent Decree work, we have successfully completed over 20 task orders. As a result, we understand your operating style and culture, and how to best respond to your needs. We have built a relationship of mutual trust and respect, which has allowed us to work as an extension of your staff.

I will serve as the Contract Manager and James Brescol will be the Technical Project Manager. James has significant experience with the planning, design, and construction of equalization basins in Toledo, OH. Contract management and project support will be provided by the Lexington office. Being local to the community means that we are personally invested in improving the quality of life in Lexington, and we take great satisfaction in working together with you to reach your goals. We look forward to working with you on these projects.

Sincerely,

Richard W. Walker

Mr. Richard W. Walker, P.E., CFM, Vice President

Tetra Tech Inc.
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Tel (859) 223-8000 Fax (859) 224-1025 www.tetratech.com

# 2 Firm Qualifications

This **executive summary** highlights RFQ selection criteria and demonstrates why LFUCG should select Tetra Tech to provide engineering services for equalization tanks or basins.


## Overall Expertise of Tetra Tech in Equalization Tanks or Basins

Tetra Tech is an international engineering firm with 13,000 employees. Tetra Tech has been ranked No. 1 in Water by *Engineering News-Record* for 8 years in a row and has a national reputation as a leader in wet weather Consent Decree programs. Tetra Tech's experience with equalization basins or tanks includes over 50 installations specifically for wet weather flow management. These range in size from less than a million gallons to over 100 MG. The vast majority of these facilities are subsurface reinforced concrete structures designed to blend well with adjacent land uses. For wet weather storage, we have also installed aluminum tanks and use open lagoons where they can be implemented in the context of their surroundings. In addition, we have significant background in above grade prestressed concrete tanks for water storage or other uses.

Our experience with facilities of this type has helped us identify opportunities to reduce costs in both the capital and life cycle phases of the projects. In Toledo, we were able to identify a facility size that made sense to all parties – the City and the regulatory agency – resulting in millions of dollars in savings.

Tetra Tech is currently involved in Consent Decree programs in Lexington, KY; Toledo, OH; Pittsburgh, PA; Kansas City, MO; and Atlanta, GA, and we understand what these programs require.

## Overall Expertise of the Team Members in Equalization Tanks or Basins

The project team members listed on our organization chart have been involved in the planning and design of over 20 equalization basins. A partial list of these facilities is included in Section 5. The team has specific expertise with odor control, maintenance, dewatering, flushing systems, and open top versus closed top structures. In addition, we have designed structures to blend in with the surrounding land use.

Carol Hufnagel will be the QA/QC engineering on the project and has been personally involved in 19 equalization projects. James Brescol has been involved in the planning, design, and construction oversight of seven equalization structures in the last 5 years.

## Past Performance on Equalization Tanks or Basins

Section 5 lists a portion of the equalization basins that the project team has completed for various clients. The projects range from 0.5 MG to 25 MG, with a construction range of $7M to $20M.

## Project Manager Qualifications

**Richard Walker** will be the contract manager for the projects. Richard has 30 years of experience and is located in the Lexington office. He is currently the program manager for the Stormwater Consent Decree for LFUCG and has successfully completed over 20 task orders under this contract.

**James (Jamie) Brescol** will be the technical project manager and has 13 years of experience. In the last 5 years, Jamie has been involved in seven wet weather facilities. This included project and technical

management of two facilities from planning through construction, preliminary design of four facilities and hydraulic design of a seventh facility. These are listed below.

| Facility | Size | Role | Construction Cost |
|---|---|---|---|
| Parkside SSO Basin, Toledo, OH | 3 MG | Project / technical manager for planning, design, and construction | $10,700,000 |
| Detroit Avenue SSO Basin, Toledo, OH | 8 MG | | $12,800,000 |
| Maumee CSO Basin, Toledo, OH | 2.7 MG | Project manager for conceptual and preliminary design to a 30% design level | $6,700,000 |
| Oakdale CSO Basin, Toledo, OH | 9.0 MG | | $15,165,000 |
| Ayres/ Monroe Storage Pipeline, Toledo, OH | 1.1 MG | | $6,600,000 |
| Dearborn Avenue Storage Pipeline, Toledo, OH | 1.6 MG | | $11,000,000 Engineer's Estimate |
| Toledo WWTP Equalization Basin, Toledo, OH | 25 MG | Hydraulic design | $30,000,000 |

## Risk Management Plan for Substitute Staffing

The Risk Management Plan is included in Section 3 and describes the process for ensuring substitute staffing if a key member leaves the project team. The foundation of Tt's risk management plan is a focused project team whose members support each other throughout the project. The technical project team for each task order will consist of the technical project manager, project engineer, and staff engineer who collaborate and share information among each other and who serve as backups to each other. This ensures that the "institutional" knowledge of each project is shared by at least three people from the beginning to the end of the project. The project engineer will be the backup technical project manager, and the staff engineer will be the backup project engineer.

## Office Status and Location of Employees

Richard Walker, the contract manager, is in the Lexington office. James Brescol, the technical project manager, is based in Cincinnati. Project engineers are based in the Lexington office and the Ann Arbor, MI, office. The Lexington office has 32 employees and provides engineering services for stormwater management, water and wastewater engineering, landfill engineering, and environmental services. In addition, the Lexington office provides project support to multiple Tetra Tech offices for accounting, human resources, information technology, operations, and marketing.

## Cost Control

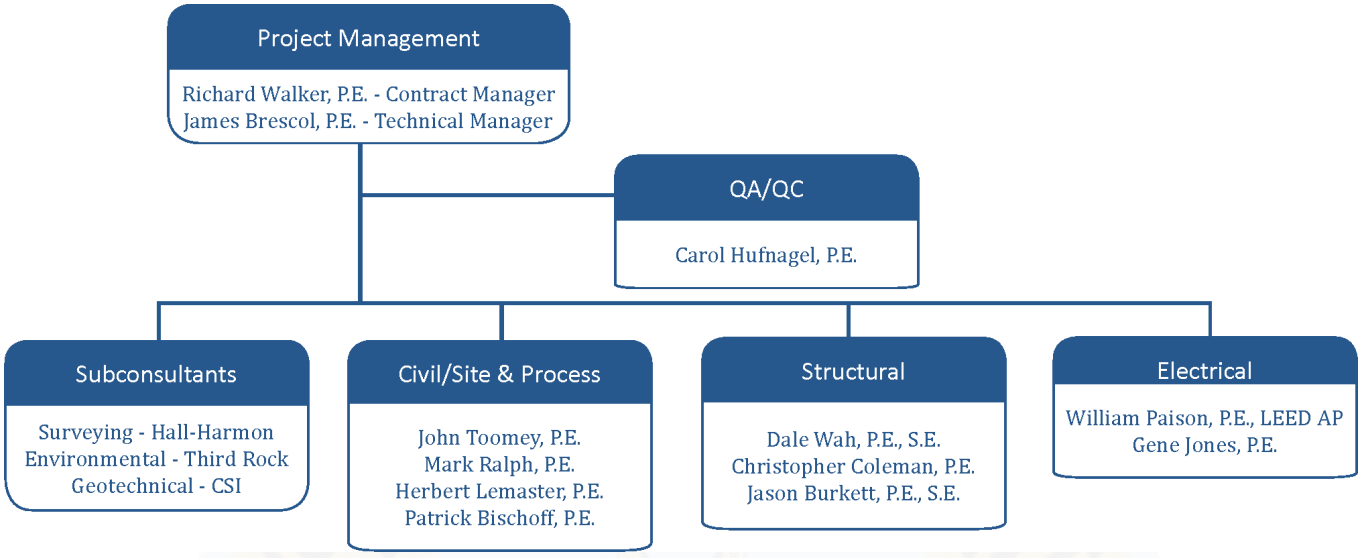
We have consistently demonstrated that we can deliver high quality products, on schedule, and within budget on LFUCG projects. As your Consent Decree program manager since 2008, we have successfully completed over 20 task orders. To that end, we will continue to use this method of conducting work that we have been using over the last 5 years. We will develop a written scope of work for each task order, along with a schedule and estimated hours/fee for various staff to complete the work. We will not begin work until the LFUCG project manager has given us written approval of the task order.

## Subconsultants

The following subconsultants are on the project team.

| Subconsultant | Services Provided | Firm Headquarters | No. of Employees |
|---|---|---|---|
| Hall-Harmon | Surveying, Eng. Support | Lexington | 7 |
| Third Rock Consultants | Environmental | Lexington | 26 |
| Consulting Services Inc. | Geotechnical | Lexington | 41 |

# 3 Project Team—EQ Tanks or Basins




## Project Team

The Tetra Tech team includes **Hall-Harmon Engineers** (HHE) (WBE) for surveying and civil/site support; **Third Rock Consultants** (TRC) (WBE) for environmental; and **Consulting Services Incorporated of KY** (CSI) for geotechnical services. Following are brief, relevant biographies of key staff members.

## Staff Background

**RICHARD WALKER, P.E., CFM (TETRA TECH, LEXINGTON)**—Mr. Walker has 30 years of experience in civil and water resources engineering. He currently manages water resource projects for cities, state governments, and industries, including program management efforts for Consent Decrees, floodplain analyses, watershed master plans, stormwater utilities, and stormwater Phase I and Phase II permit implementation. He has worked with LFUCG since 1983 and has been the stormwater program manager for the Consent Decree for Lexington since 2008.

- ***EPA Consent Decree Stormwater Program Management, Lexington, Kentucky***—Mr. Walker is the program manager for the Federal Consent Decree for Lexington, Kentucky, the first Consent Decree in the nation that addresses both sanitary sewer and stormwater violations of the Clean Water Act. Mr. Walker is responsible for QA/QC of all deliverables required by the Consent Decree and for ensuring they are submitted to EPA ahead of schedule. He is also responsible for assisting the city with implementing the Stormwater Quality Management Program (SWQMP) that is part of the Consent Decree. The SWQMP, developed by Tetra Tech, is a comprehensive program for complying with the EPA Phase I Stormwater regulations and addresses public education/involvement, watershed management, illicit discharges, construction site runoff, industrial facilities, high-risk commercial facilities, municipal operations, residential/commercial development, water quality monitoring, and recordkeeping.

**JAMES BRESCOL, P.E. (TETRA TECH, CINCINNATI)**—Mr. Brescol has 13 years of experience with Tetra Tech, which includes extensive work with the implementation of wet weather control programs through his involvement in the Toledo Waterways Initiative since its inception in 2002. This program is being implemented under the terms of a consent decree in order to control CSO and SSO discharges. As part of this program, he was a co-author of the Long Term Control Plan, leads the hydraulic modeling and has managed the development of preliminary design for multiple satellite storage facilities. Under separate contracts with the City, he has led planning, design and construction services for two major wet weather storage facilities.

- ***Detroit and Parkside Sanitary Sewer Overflow (SSO) Elimination, Toledo, Ohio***—Project manager for the implementation of projects to eliminate SSOs to local receiving waters. These projects included the planning, design and construction phase services for two facilities:

- ***Detroit Avenue SSO basin***: The Detroit area improvements included two wet weather pump stations (9 and 14 MGD) and an 8.0 MG storage basin. (Construction complete 2012)
- ***Parkside Area SSO basin***: The Parkside area improvements included a 10 MGD pump station and a 3.0 MG storage basin. (Currently under construction)

Each area included developing and calibrating a hydrologic/hydraulic model which combined consisted of approximately 87.2 miles of sewer and 4,000 acres of sanitary service area. The hydraulic modeling used a long-term simulation approach, which justified facilities of approximately half the size of those originally anticipated based on a design storm analysis, saving the City millions of dollars in construction costs.

- ***Toledo Waterways Initiative (TWI) Program, Toledo, Ohio***—Led preliminary designs (30% stage) for two storage basins and two storage pipelines. Preliminary design efforts include facility layout, facility process design, final sizing, hydraulic design, site selection and preliminary site plan, environmental reviews, and geotechnical/ structural concept design. These facilities included:
  - ***Ayres/ Monroe Storage Pipeline***: 108-inch sewer to provide 1.1 MG of storage.
  - ***Maumee CSO Basin***: 3.0 MG storage facility, conveyance sewers, dewatering pump station (under construction)
  - ***Oakdale CSO Basin***: 8.0 MG storage basin, conveyance sewers, dewatering pump station (under construction)
  - ***Dearborn CSO Basin***: 1.6 MG storage basin, reconfigured as 132-inch storage pipeline to reduce costs (in design).
- ***Bay View Wastewater Treatment Plant, Toledo, Ohio***—Hydraulics Engineer for improvements to the plant including improvements to the 195 MGD influent pumping station, a 25 MG equalization basin with overflow structure, and a 60 MGD dewatering pump station. Completed all hydraulic calculations to size pumps, force mains and wet wells, set equalization basin weir elevations, and general plant hydraulics.

**CAROL HUFNAGEL, P.E. (TETRA TECH, ANN ARBOR)**—Ms. Hufnagel is a recognized national expert with over 25 years of experience in the evaluation and control of sewer systems impacted by wet weather flow. She has been involved in the planning, design and implementation of approximately $1 Billion in wet weather facilities, including 19 wet weather storage and treatment facilities.

- ***Rouge River National Wet Weather Demonstration Project, Wayne County, Michigan***—Project Manager for basin evaluation effort for nine Rouge Watershed CSO retention / treatment facilities. The project involved evaluation of the facilities in terms of performance and operations. Facilities ranged from 1.9 MG to 22 MG in size and included storage, screening, disinfection and various ancillary systems such as odor control, flow monitoring and sampling. (1997 – 2002)
- ***Milk River Intercounty Drainage Board, Michigan***—Project Manager and project engineer for various aspects of the Milk River CSO Program. The project included design and construction of a 19 MG CSO basin (construction complete 1994 at cost of $32 million); a post construction performance study of the CSO basin following facility startup; and an additional study of impacts to water quality in the receiving stream (Milk River), particularly dissolved oxygen (DO) impacts. (1994 – 2011)
- ***Other Facility Designs:***
  - ***Detroit, MI***—Basis of Design Manager and hydraulic design for 5,100 CFS capacity screening and disinfection facility (2001 – 2011)
  - ***Redford, MI***—Hydraulic and regulatory design for 1.9 MG CSO retention/ treatment facility. (1995)

- ***Inkster, MI***—Hydraulic and regulatory design for 3.1 MG CSO retention/ treatment facility. (1995)
- ***Dearborn Heights, MI***—Hydraulic and regulatory design for 2.6 MG CSO retention/ treatment facility. (1995)
- ***Grand Rapids, MI***—Hydraulic and regulatory design for 30 MG CSO retention/ treatment facility. (1992)
- ***Toledo, OH***—Project advisor, QA for seven wet weather storage facilities in Toledo. (2005 – 2012)

**CHRISTOPHER COLEMAN, P.E. (TETRA TECH, LOUISVILLE)**—Mr. Coleman is a senior structural engineer and discipline leader for the structural and architectural group for Tetra Tech's east region. He has more than 15 years of design experience in steel, concrete, masonry, and wood structures. His work has included several wet weather facilities.

- ***Detroit and Parkside Sanitary Sewer Overflow (SSO) Elimination, Toledo, Ohio***—Mr. Coleman provided structural design services for two wet weather facilities and associated pumping stations. Storage facilities were large in-ground reinforced concrete structures. The project includes: Parkside Basin (3.0 MG, 40 feet below grade); Mt. Vernon Pump Station (2,200 SF, 28 feet below grade); Copland Pump Station (2,000 SF, 54 feet below grade); and Detroit Basin (8 MG, 41 feet below grade). (2009 - 2012)
- ***Swine Manure Handling Facility Improvements, UK Animal Research Center, Woodford, Kentucky***—Lead Structural Engineer for an above-ground, 400,000-gallon storage tank with pump station and electrical room. Professional services included construction administration. (2008–2009)
- ***Clean Tech, Dundee, Michigan***—Provided engineering oversight to the design and construction of an in-ground concrete tank for a recycling facility. The tank is being constructed adjacent to an existing multi-cell tank. (2011)

**DALE WAH, P.E., S.E. (TETRA TECH, SAN DIMAS, CA)**— Mr. Wah has over 30 years' experience in many types of structures, with significant experience in above grade storage tanks, primarily for water storage. He is experienced in prestressed, poured-in-place, and tilt-up concrete, masonry, steel, and wood frame design and construction. He has been involved in the design of over 100 infrastructure-related projects, including water and wastewater treatment plants, booster pump stations, sewage lift stations, and potable and non-potable water storage reservoirs. These projects have included both above-grade and below-grade facilities, some as deep as 25 feet in high groundwater conditions.

- ***18 MG Milliken Avenue Water Storage Program, City of Ontario, Ontario, California***—Chief Structural Engineer for the City of Ontario's 9.0 MG "twin" reservoir (1010-2B) (under construction) to the 9.0 MG Milliken Avenue Reservoir designed by Tetra Tech and completed in 2001. Both reservoirs are prestressed concrete and have an architectural treatment that simulates a sports arena façade. It includes associated lighting to blend with the commercial and light industrial neighborhood. Design and construction of each phase of this storage program was completed ahead of schedule and under budget. The proactive schedule and budget control can be attributed to many factors, but the most important item comprehensive Preliminary Design Report early-on in design. This document carefully analyzed all project issues and provided the documentation necessary for key decisions to be made by City staff.
- ***Twin Oak Reservoirs, North San Diego County, San Diego, California***—Principal Structural Engineer for the design of two 33.0 MG concrete prestressed circular strand wrapped reservoirs. The diameter of both reservoirs is 388 feet. The two-way concrete roof slab was designed to support three feet of soil fill. When completed, they will be the largest in capacity of their type in the United States.
- ***Van Nuys and Longden Reservoirs, San Gabriel, California***—Design of 6.0 and 4.2 MG rectangular and square concrete prestressed reservoirs partially buried with battered walls and two-way concrete roof slabs. As an alternative, these reservoirs were also designed without prestressing, using only conventional reinforcing.

**JOHN TOOMEY, P.E. (TETRA TECH, ORLANDO)**— Mr. Toomey has over 32 years of wastewater utility experience and has been responsible for a variety of water and wastewater facility designs, transmission projects, and pumping stations. He has extensive experience in the design of large equalization basins or tanks.

- ***Norwood-Oeffler Water Treatment Plant, North Miami Beach, Florida***—As part of a 17 GMD expansion to the existing 15 MGD treatment plant capacity, designed and administered construction for two at-grade circular storage tanks. The 5.0 MG storage reservoir included 0.2 MG chloramine contact tank. A 2.0 MG storage reservoir was constructed at a new high-service pump station to provide storage capacity for variations in flow demands. (2009)
- ***Ozone Water Treatment Plant, Lake City, Florida***—As part of a new ozone contact water treatment plant, performed design and construction-phase services for two 1.5 MG above-grade circular storage tanks to provide storage volume to mitigate diurnal variations in demand and allowance for fire flow events. (2007)
- ***Western Storage Tank and Pump Station, Miramar, Florida***—Completed water system water treatment plant master plans for the City of Miramar, FL. The master plans recommended above-grade storage and a booster station to improve pressures in the rapidly growing western suburbs. Provided design engineering and construction administration for a 3.0 MG above-grade prestressed circular concrete storage tank and a 7,500 GPM (firm capacity) booster station. (2002)

**MARK RALPH, P.E. (TETRA TECH, LEXINGTON)**—Mr. Ralph's 20 years of experience include planning, design, and construction management of water, wastewater, recycled water, and stormwater facilities. Projects include treatment facilities, pump stations, reservoirs, dam modifications, force mains, domestic and recycled water pipelines, and gravity sewers. Over the past 4 years, Mark has worked almost exclusively on Consent Decree projects similar to those required for the LFUCG RFP.

**HERBERT LEMASTER, P.E. (TETRA TECH, LEXINGTON)**—Mr. Lemaster is a senior engineer in the Lexington office with 18 years of experience in project analysis and design, writing specifications, developing contract documents and cost estimates, preparation of construction drawings, construction administration, and construction engineering. Mr. Lemaster serves as a project manager and engineer on various civil and environmental projects.

- ***ARC Swine Manure Handling Facility Improvements, Woodford County, Kentucky***—Project Manager.

**PATRICK BISCHOFF, P.E. (TETRA TECH, LEXINGTON)**—Mr. Bischoff has worked on water and wastewater projects in Kentucky, Ohio, and North Carolina, including modeling, design, utility rate studies, and sewer rehabilitation. He has worked on commercial and residential site development projects involving roadway, storm sewer, sanitary sewer, and water design, and is familiar with the design of stormwater facilities in site development contexts. He is currently assisting the LFUCG Division of Water Quality with permitting issues associated with work in streams.

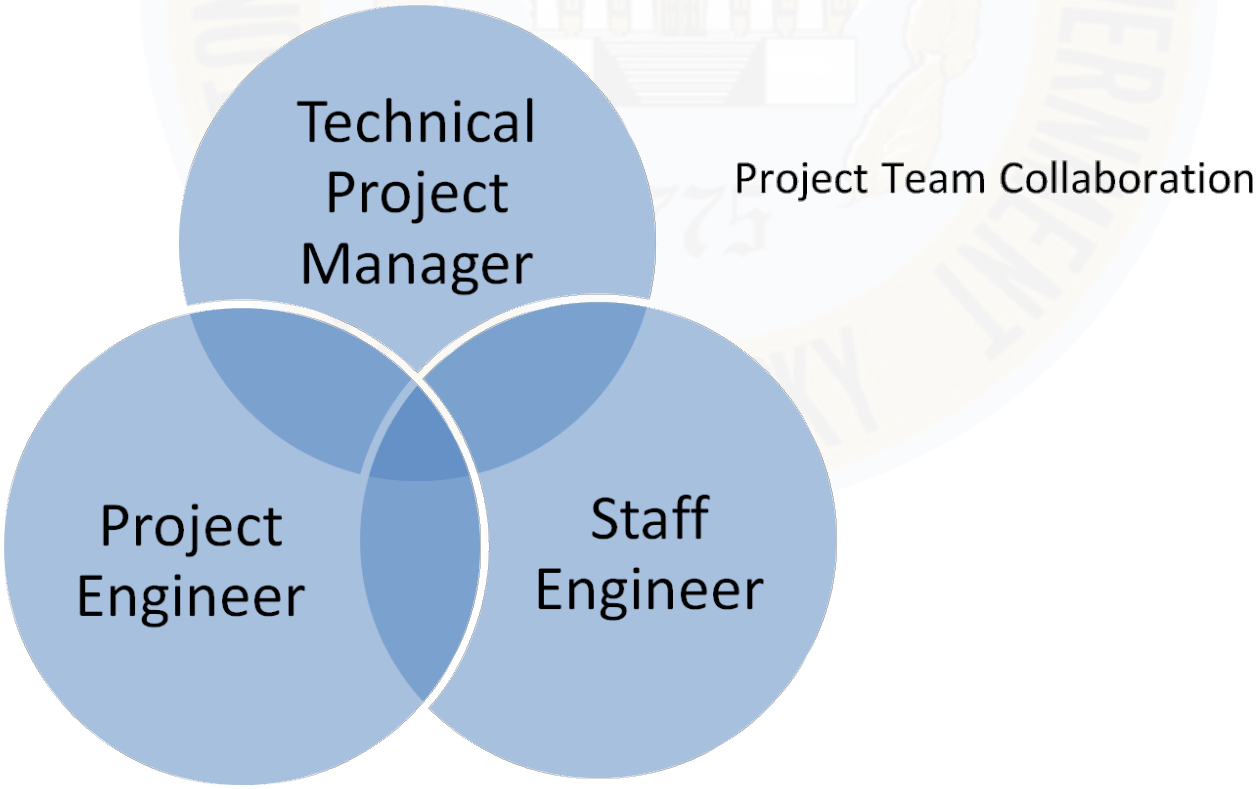
**JASON BURKETT, P.E., S.E. (TETRA TECH, LOUISVILLE)**—Mr. Burkett is a structural engineer who has worked with composite steel, prestressed/precast concrete, concrete frames, steel frames, masonry, timber, tilt-up concrete panels, light-gauge steel, and aluminum. He has completed projects in residential, commercial, health care, government, education, industrial, aviation, performing arts, roofing components, hurricane shelters, high-velocity hurricane zones, renovations/additions, and investigations.

**WILLIAM PAISON, P.E., LEED AP (TETRA TECH, ANN ARBOR)**—Mr. Paison has 17 years of experience in the electrical and instrumentation designs and specifications of water and wastewater treatment systems. These facilities feature computerized monitoring and control systems, radio telemetry, telephone telemetry, power distribution systems, security, and networking. Mr. Paison also has extensive experience in the design of government and industrial buildings. These facilities feature power distribution systems, automatic light control to conserve energy, LEED design recommendations, video based security with remote monitoring, communications, lightning protection, and addressable fire systems. He has expertise in the following areas: medium- and low-voltage power distribution design, SCADA design, Instrumentation, medium voltage substations, motor control, process control, chemical feed system instrumentation, generators and standby power systems, and lighting.

**GENE JONES, P.E. (TETRA TECH, ANN ARBOR)**—Mr. Jones is experienced in the design of complex electrical and process instrumentation systems for industrial facilities and municipal water and wastewater facilities. Projects have ranged in complexity from simple sewage lift stations and water well houses to complete water and wastewater treatment facilities.

## Risk Management Plan for Substitute Staffing

The RFQ requires the inclusion of a Risk Management Plan for substitute staffing in the event that a key team member leaves the project team before a task order is completed. The foundation of Tetra Tech's risk management plan is a focused project team whose members support each other throughout the project. The technical project team for each task order will consist of the technical project manager, project engineer, and staff engineer who collaborate and share information among each other and who serve as backups to each other. This ensures that the "institutional" knowledge of each project is shared by at least three people from the beginning to the end of the project. The project engineer will be the backup technical project manager, and the staff engineer will be the backup project engineer.



Other provisions of the Tetra Tech Risk Management Plan include the following:

- The project team will have a weekly progress meeting to review what was accomplished the previous week and what is planned for the upcoming week.
- The project team will meet to review the plans and specifications at the 30%, 75%, and final completion stages. This will ensure that all members of the project team are up-to-date on the details of the project.
- Electronic project files including design decisions and calculations will be located on a central server that is accessible to all members of the project team at all times to ensure that everyone is fully knowledgeable of the project.

# 4 List of Clients for Which Similar Work Has Been Performed

Our team provided professional engineering services for the following clients.

| Client | Similar Projects Completed |
|---|---|
| Mr. Scott Sibley<br>City of Toledo, OH<br>(419) 936-2851<br>scott.sibley@toledo.oh.gov | • Parkside SSO Elimination – EQ Basin, Toledo, OH<br>• Detroit Avenue SSO Elimination – EQ Basin, Toledo, OH<br>• WWTP Equalization Basin, Toledo, OH |
| Mr. George Robinson<br>Toledo Waterways Initiative<br>Dept. of Public Utilities<br>(419) 936-2338<br>george.robinson@toledo.oh.gov | • Maumee and Oakdale CSO Basins, Toledo, OH<br>• Ayres and Dearborn CSO Storage Pipelines, Toledo, OH |
| Mr. Jesus Merejo<br>Utilities Director<br>City of Port St. Lucie, FL<br>(772) 873-6400<br>merejo@cityofpsl.com | • Four 4 MG above-grade circular storage tanks – James E. Anderson Water Treatment Plant, Port St. Lucie, FL |
| Mr. Jeff An<br>Plant Assistant Director<br>City of North Miami Beach, FL<br>(305) 409-6096<br>jeff.an@citynmb.com | • Two at-grade circular storage tanks (5.0 MG and 2.0 MG) – Norwood-Oeffler Water Treatment Plant, North Miami Beach, FL |

# 5 List of Similar Design Services Projects

The following projects are ones worked on by the staff listed on the enclosed organization chart. Tetra Tech has worked on additional projects not listed below.

| Project Name, Location | Completion Date | Services Provided / Project Description | Project Construction Cost |
|---|---|---|---|
| WWTP Equalization Basin, Toledo, OH | 2007 | Design and construction of improvements at the Bay View WWTP to increase the wet weather treatment capacity. Upgrades were made to the influent WWTP pump station to increase its capacity from 160 to 195 MGD. A new 25 MG equalization basin stores excess wet weather flow that is dewatered via a new 60 MGD pump station to secondary treatment. The basin is part covered and part open to limit the potential for odors and overall project costs. | $30,000,000 (total program) |
| Parkside SSO Elimination, Toledo, OH | *Under Construction* | Design and construction-phase engineering services to eliminate the Parkside SSO. A 3.0 MG storage basin is under construction in Ottawa Park adjacent to the Golf Course 18th fairway. The basin is built into the side of a hill with a face exposed to the park. Concrete form liners were designed to provide an architectural look to the exposed face. The basin is covered with access for park users as an "outlook" over the park and golf course. The basin receives flow from a 10 MGD pump station and 24-inch HDPE force main. | $10,739,162 |
| Detroit Avenue SSO Elimination, Toledo, OH | 2012 | Design and construction-phase engineering services to eliminate the Detroit Avenue SSO. The 8.0 MG, below-grade Schneider Equalization Basin is located in Schneider Park, a highly used soccer complex. The basin receives flow from an adjacent 14 MGD pump station. The pump station and basin are situated in a City Soccer Complex within a Community Garden. Accommodations were made to provide a bathroom facility for the Soccer Complex and provide access an irrigation source for the Community Garden. | $12,785,480 |
| ARC Swine Manure Handling Facility Improvements, Woodford Co., KY | 2009 | Design and construction administration services for improving an agricultural site and its existing receiving station, constructing a new 400,000-gallon storage tank. | $1,100,000 (est.) |
| James E. Anderson Water Treatment Plant, Port St. Lucie, FL | 2008 | As part of a new brackish water, reverse osmosis treatment plant, Tetra Tech performed design and construction administration for four 4.0 MG above-grade circular storage tanks. The tanks provided a buffer for variations in daily demands and allowance for fire flow conditions. | $54,000,000 |

| Project Name, Location | Completion Date | Services Provided / Project Description | Project Construction Cost |
|---|---|---|---|
| Western Storage Tank and Pump Station, Miramar, FL | 2002 | Tetra Tech completed water system water treatment plant master plans for the City of Miramar, FL. The master plans recommended above grade storage and a booster station to improve pressures in the rapidly growing western suburbs. Tetra Tech was selected to provide design engineering and construction administration for a 3.0 MG above-grade prestressed circular concrete storage tank and a 7,500 GPM (firm capacity) booster station. | $2,902,164 |
| Ozone Water Treatment Plant, Lake City, FL | 2007 | As part of a new ozone contact water treatment plant, Tetra Tech performed design and construction phase services for two 1.5 MG above-grade circular storage tanks to provide storage volume to mitigate diurnal variations in demand and allowance for fire flow events. | $12,000,000 |
| Norwood-Oeffler Water Treatment Plant, North Miami Beach, FL | 2009 | As part of a 17 MGD expansion to an existing 15 MGD treatment plant capacity, Tetra Tech designed and administered construction for two at-grade circular storage tanks. The 5.0 MG storage reservoir included 0.2 MG chloramine contact tank. A 2.0 MG storage reservoir was constructed at a new high-service pump station to provide storage capacity for variations in flow demands. | $65,000,000 |
| Mount Washington Reservoir, Calistoga, CA | 2012 | Design construction administration for a below grade 1.5 MG prestressed circular concrete tank for potable water storage. | $3,000,000 |
| Nohl Canyon Tank, Anaheim, CA | 2010 | Design construction administration for a partly buried 10.0 MG prestressed circular concrete tank for potable water storage. | $16,000,000 |
| Coldwater Canyon Reservoir Replacement & Beverly Hills Supplemental (Woodland Dr.) Reservoir, Beverly Hills, CA | 2010 | Design and construction administration for two prestresesd circular concrete tanks sized at 8.3 MG and 1.65 MG. The storage tanks maintain system pressures during high demand periods. | $20,000,000 |
| Milliken Avenue 1010-2B Reservoir, Ontario, CA | 2008 | Design and construction-phase services for two 9.0 MG presetressed concrete water storage tanks. Architectural accommodations were made to blend the facility into the surroundings. | $14,500,000 |
| 925-2A Reservoir, Ontario, CA | 2007 | 6.0 MG concrete reservoir. | $4,000,000 |
| Reynolds Ranch Reservoir, Vacaville, CA | 2007 | 0.53 MG concrete reservoir. | $3,000,000 |

# 6 Local Office

| Prime Consultant | Location (City, State) | Date Office Established | Total No. of Employees | No. of Employees Expected to Work on DWQ Projects |
|---|---|---|---|---|
| Headquarters | Lexington, KY* | 1999 | 32 | 12 |
| Local Office | Lexington, KY | 1999 | 32 | 12 |
| PM Location | Lexington, KY, and Cincinnati, OH** | | | |
| | | | | |
| **Subconsultants** | | | | |
| Hall-Harmon Engineers | *Surveying* | | | |
| Headquarters | Lexington, KY | 1994 | 7 | 5 |
| Local Office | Lexington, KY | 1994 | 7 | 5 |
| | | | | |
| Third Rock Consultants | *Environmental* | | | |
| Headquarters | Lexington, KY | 2000 | 26 | 3 |
| Local Office | Lexington, KY | 2000 | 26 | 3 |
| | | | | |
| Consulting Services Incorporated of KY | *Geotechnical* | | | |
| Headquarters | Lexington, KY | 2009 | 41 | 10 |
| Local Office | Lexington, KY | 2009 | 41 | 10 |

* The Lexington office of Tetra Tech meets the definition of "headquarters" as defined in the RFQ (see the definition below). The Lexington office contains technical staff such as project managers, project engineers, CAD, and GIS technicians. In addition, the Lexington office contains project support staff for other offices in the region, including accounting, human resources, information technology, operations, and marketing. The corporate executive office of Tetra Tech is in Pasadena, CA; however, it provides no direct project support to the Lexington office.

Definition of Headquarters from the RFQ: "Headquarters" refers to the corporate office that provides project support to the local office, if applicable.

** The contract manager, Richard Walker, is in the Lexington office. James Brescol, the technical project manager, is in the Cincinnati office. During implementation of this project(s) Mr. Brescol and the primary structural engineer will perform work on this project from the Lexington office.

## Estimated Percent of Work Performed in Local Offices

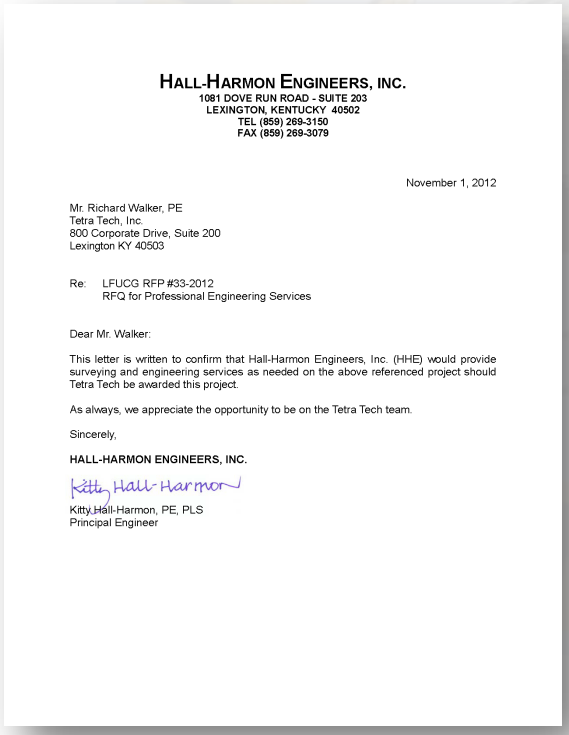
The estimated percent of work to be performed by staff in local offices is 75%.

# 7 Disadvantaged Business Enterprise Involvement

Tetra Tech understands the importance of MBE/WBE goals and is committed to providing meaningful women and minority participation at levels desired by LFUCG. Our track record on similar efforts demonstrates our commitment to, and success in, achieving or exceeding project-specific goals. For example, on our current program management contract, DBEs have performed over 30% of the work.

The following table outlines the WBEs Tetra Tech plans to use on this contract so as to meet or exceed the 10% participation goal set forth by LFUCG for this work:

| Firm | Local Address | Scope to Provide | MBE/WBE Designation |
|---|---|---|---|
| **Hall-Harmon Engineers (HHE)** | 1081 Dove Run Road,<br>Suite 203<br>Lexington, KY | Surveying and Civil/Site Support | WBE |
| **Third Rock Consultants (TRC)** | 2526 Regency Road,<br>Suite 180<br>Lexington, KY | Environmental | WBE |



HALL-HARMON ENGINEERS, INC.
1081 DOVE RUN ROAD - SUITE 203
LEXINGTON, KENTUCKY 40502
TEL (859) 269-3150
FAX (859) 269-3079

November 1, 2012

Mr. Richard Walker, PE
Tetra Tech, Inc.
800 Corporate Drive, Suite 200
Lexington KY 40503

Re: LFUCG RFP #33-2012
RFQ for Professional Engineering Services

Dear Mr. Walker:

This letter is written to confirm that Hall-Harmon Engineers, Inc. (HHE) would provide surveying and engineering services as needed on the above referenced project should Tetra Tech be awarded this project.

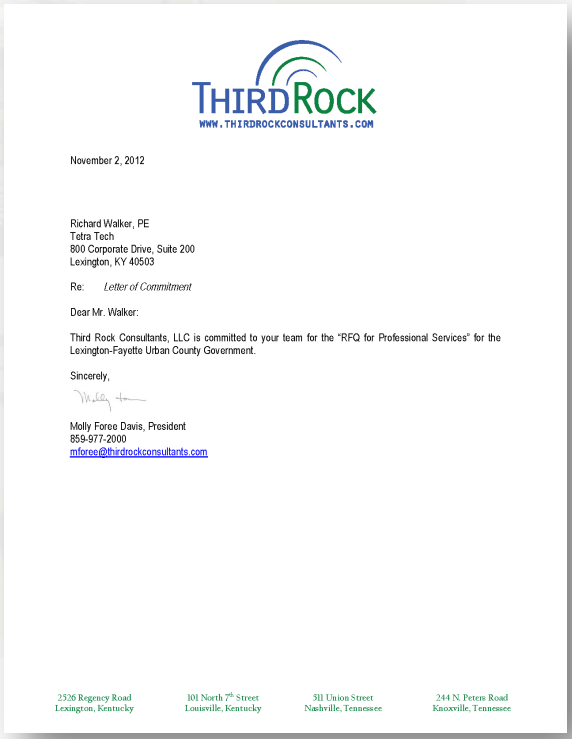
As always, we appreciate the opportunity to be on the Tetra Tech team.

Sincerely,

HALL-HARMON ENGINEERS, INC.

Kitty Hall-Harmon

Kitty Hall-Harmon, PE, PLS
Principal Engineer



THIRDROCK
WWW.THIRDROCKCONSULTANTS.COM

November 2, 2012

Richard Walker, PE
Tetra Tech
800 Corporate Drive, Suite 200
Lexington, KY 40503

Re: *Letter of Commitment*

Dear Mr. Walker:

Third Rock Consultants, LLC is committed to your team for the "RFQ for Professional Services" for the Lexington-Fayette Urban County Government.

Sincerely,

Molly Foree Davis, President
859-977-2000
mforee@thirdrockconsultants.com

2526 Regency Road
Lexington, Kentucky

101 North 7th Street
Louisville, Kentucky

511 Union Street
Nashville, Tennessee

244 N. Peters Road
Knoxville, Tennessee

# 8 Statement of Hourly Rates

| Job Classification | Hourly Rate |
|---|---|
| Principal | $195 |
| Project Manager | $170 |
| Project Engineer (PE) | $140 |
| Project Engineer (EIT) | $95 |
| Engineering Technician / CAD Technician | $115 |
| Survey Crew | $120 |
| Clerical | $70 |

The hourly rates are effective for 3 years following the contract date.

Following is a list of expected reimbursable expenses:

- Subcontractors: Cost plus 10%
- Mileage: Automobile: $0.56/mile; Truck: $0.70/mile
- Out-of-Pocket Expenses: At cost.