

KEY FOCUS AREA: Economic Vibrancy
AGENDA DATE: September 22, 2010
COUNCIL DISTRICT(S): All
DEPARTMENT: Trinity Watershed Management
CMO: Jill A. Jordan, P.E., 670-5299
MAPSCO: N/A

SUBJECT

Authorize Supplemental Agreement No. 1 to the professional services contract with Arun Wagh, Inc., Geotechnical & Environmental Consultants, for independent external peer review services for the 100-Year Levee Improvement Project, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge for the Trinity River Corridor Project - Not to exceed \$90,952, from \$114,400 to \$205,352 - Financing: 2003 Bond Funds (\$33,952) and 2006 Bond Funds (\$57,000)

BACKGROUND

The City of Dallas, in accordance with the Water Resources Development Act of 2007, Section 2034 and 2035, is required to perform an independent external peer review of projects during design and construction of large federally authorized flood control projects, such as the Dallas Floodway Project. The U.S. Army Corps of Engineers (USACE) has determined that the design and construction of the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge require an independent external peer review.

The independent external peer review will be a team with expertise in hydraulics and hydrology, geotechnical, civil and construction management disciplines. Each team member has submitted the appropriate qualifications and submitted the conflict disclosure forms in accordance with National Academy of Sciences' policy for committee selection with respect to evaluating the potential for conflicts. In addition, team members have been approved by the USACE.

This team will review scientific and technical matters. The team will review the designs at 35% and 95% submittals and submit a report to the City of Dallas in accordance with USACE guidance. Each team member has participated in previous independent external peer reviews. This team also has experience with projects of similar size and similar time constraints.

BACKGROUND (Continued)

Arun Wagh will serve as the construction expert and ensure compatibility of the designs and associated construction for the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge. He has extensive experience in subsurface investigations, soil mechanics, seepage and slope stability evaluations, erosion protection design, and construction and earthwork construction.

The Water Resources Development Act (WRDA) of 2007 provided authorization for the Dallas Floodway Project which includes the Balanced Vision Plan and Interior Drainage Plan for the East and West Levees. The 100-Year Levee Improvement are anticipated to be included as phase 1 of the Balanced Vision Plan. The Pavaho Pump Station and Baker Pump Station are part of the Interior Drainage Plan. The Sylvan Avenue Bridge is included in the transportation components of the Dallas Floodway Project. This independent external peer review contract will serve as a portion of the City of Dallas' in-kind credit towards the construction of the Dallas Floodway Project. This contract is being fully coordinated with the U. S. Army Corps of Engineers with respect to their ongoing development of the Dallas Floodway Environmental Impact Statement (EIS) and future construction activities.

Supplemental Agreement No. 1 will increase the existing scope of services to address the additional technical analysis and information required to review the 100 Year-Levee Improvement Project, Pavaho Pump Station, Baker Pump Station and the Sylvan Avenue Bridge engineering and construction projects.

ESTIMATED SCHEDULE OF PROJECTS

Began Independent External Peer Review	July 2010
Complete Independent External Peer Review	February 2013

PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)

The Trinity River Corridor Project Committee was briefed (by memo) on June 22, 2010.

The Trinity River Corridor Project Committee is scheduled to be briefed (by memo) on September 21, 2010.

FISCAL INFORMATION

2003 Bond Funds - \$33,952
2006 Bond Funds - \$57,000

ETHNIC COMPOSITION

Hispanic Female	0	Hispanic Male	0
African-American Female	0	African-American Male	0
Other Female	0	Other Male	1
White Female	0	White Male	0

OWNER

Arun Wagh, Inc., Geotechnical & Environmental Consultants

Arun Wagh, P.E.

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COUNCIL DISTRICT(S): All

DEPARTMENT: Trinity Watershed Management

CMO: Jill A. Jordan, P.E., 670-5299

MAPSCO: N/A

SUBJECT

Authorize Supplemental Agreement No. 1 to the professional services contract with David T. Williams and Associates, Engineers, LLC for independent external peer review services for the Dallas Floodway Project including the 100-Year Levee Improvement Project, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge for the Trinity River Corridor Project - Not to exceed \$67,852, from \$226,900 to \$294,752 - Financing: 2003 Bond Funds (\$35,852) and 2006 Bond Funds (\$32,000)

BACKGROUND

The City of Dallas, in accordance with the Water Resources Development Act of 2007, Section 2034 and 2035, is required to perform an independent external peer review of projects during design and construction of large federally authorized flood control projects, such as the Dallas Floodway Project. The U.S. Army Corps of Engineers (USACE) has determined that the design and construction of the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge require an independent external peer review.

The independent external peer review will be a team with expertise in hydraulics and hydrology, geotechnical, civil and construction management disciplines. Each team member has submitted the appropriate qualifications and submitted the conflict disclosure forms in accordance with National Academy of Sciences' policy for committee selection with respect to evaluating the potential for conflicts. In addition, team members have been approved by the USACE.

BACKGROUND (Continued)

This team will review scientific and technical matters. The team will review the designs at 35% and 95% submittals and submit a report to the City of Dallas in accordance with USACE guidance. Each team member has participated in previous independent external peer reviews. This team also has experience with projects of similar size and similar time constraints. The City of Dallas, in accordance with the Water Resources Development Act of 2007, Section 2034 and 2035, is required to perform an independent external peer review of projects under design through construction if the City intends on seeking in-kind credit or reimbursement upon completion of the construction activities. The U. S. Army Corps of Engineers (USACE) has determined that the design and construction of the 100-Year Levee Improvements, Pavaho Pump Station, and Baker Pump Station require an independent external peer review.

David T. Williams will serve as the Team Lead and the hydraulics and hydrology expert. In addition to ensuring compatibility of the designs for the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge, he will perform administrative functions and serve as the primary contact for recommendations from the Independent External Peer Review Team. He has extensive experience serving as the lead role as well as performing hydrologic analysis and design of hydraulic structures.

The Water Resources Development Act (WRDA) of 2007 provided authorization for the Dallas Floodway Project which includes the Balanced Vision Plan and Interior Drainage Plan for the East and West Levees. The 100-Year Levee Improvements are anticipated to be included as Phase 1 of the Balanced Vision Plan. The Pavaho Pump Station and Baker Pump Station are part of the Interior Drainage Plan. The Sylvan Avenue Bridge is included in the transportation components of the Dallas Floodway Project. This independent external peer review contract will serve as a portion of the City of Dallas' in-kind credit towards the construction of the Dallas Floodway Project. This contract is being fully coordinated with the U. S. Army Corps of Engineers with respect to their ongoing development of the Dallas Floodway Environmental Impact Statement (EIS) and future construction activities.

Supplemental Agreement No. 1 will increase the existing scope of services to address the additional technical analysis and information required to review the 100 Year-Levee Improvement Project, Pavaho Pump Station, Baker Pump Station and the Sylvan Avenue Bridge engineering and construction projects.

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FISCAL INFORMATION

2003 Bond Funds - \$35,852

2006 Bond Funds - \$32,000

ETHNIC COMPOSITION

Hispanic Female	0	Hispanic Male	0
African-American Female	0	African-American Male	0
Other Female	0	Other Male	1
White Female	0	White Male	0

OWNER

David T. Williams and Associates, Engineers, LLC

David T. Williams, Owner

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DEPARTMENT: Trinity Watershed Management
CMO: Jill A. Jordan, P.E., 670-5299
MAPSCO: N/A

SUBJECT

Authorize Supplemental Agreement No. 1 to the professional services contract with George Sills Geotechnical Engineering Consultant, LLC for independent external peer review services for the Dallas Floodway Project including the 100-Year Levee Improvement Project, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge for the Trinity River Corridor Project - Not to exceed \$91,072, from \$201,353 to \$292,425 - Financing: 2003 Bond Funds (\$34,072) and 2006 Bond Funds (\$57,000)

BACKGROUND

The City of Dallas, in accordance with the Water Resources Development Act of 2007, Section 2034 and 2035, is required to perform an independent external peer review of projects during design and construction of large federally authorized flood control projects, such as the Dallas Floodway Project. The U.S. Army Corps of Engineers (USACE) has determined that the design and construction of the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station and Sylvan Avenue Bridge require an independent external peer review.

The independent external peer review will be a team with expertise in hydraulics and hydrology, geotechnical, civil and construction management disciplines. Each team member has submitted the appropriate qualifications and submitted the conflict disclosure forms in accordance with National Academy of Sciences' policy for committee selection with respect to evaluating the potential for conflicts. In addition, team members have been approved by the USACE.

This team will review scientific and technical matters. The team will review the designs at 35% and 95% submittals and submit a report to the City of Dallas in accordance with USACE guidance. Each team member has participated in previous independent external peer reviews. This team also has experience with projects of similar size and similar time constraints.

BACKGROUND (Continued)

George Sills will serve as the geotechnical expert and ensure compatibility of the designs for the 100-Year Levee Improvements, Pavaho Pump Station, Baker Pump Station, and Sylvan Avenue Bridge. He has extensive experience in subsurface investigations, soil mechanics, seepage and slope stability evaluations, erosion protection design, and construction and earthwork construction.

The Water Resources Development Act (WRDA) of 2007 provided authorization for the Dallas Floodway Project which includes the Balanced Vision Plan and Interior Drainage Plan for the East and West Levees. The 100-Year Levee Improvements are anticipated to be included as phase 1 of the Balanced Vision Plan. The Pavaho Pump Station and Baker Pump Station are part of the Interior Drainage Plan. The Sylvan Avenue Bridge is included in the transportation components of the Dallas Floodway Project. This independent external peer review contract will serve as a portion of the City of Dallas' in-kind credit towards the construction of the Dallas Floodway Project. This contract is being fully coordinated with the U. S. Army Corps of Engineers with respect to their ongoing development of the Dallas Floodway Environmental Impact Statement (EIS) and future construction activities.

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FISCAL INFORMATION

2003 Bond Funds - \$34,072
2006 Bond Funds - \$57,000

OWNER

George Sills Geotechnical Engineering Consultant, LLC

George Sills, Owner