

TASK ORDER

<p>This is Task Order No. <u>7</u> consisting of <u>5</u> pages.</p>
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Task Order

In accordance with paragraph 1.01 of the Standard Form of Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated January 16, 2007 ("Agreement"), Owner and Engineer agree as follows:

1. Specific Project Data

- A. Title: City of Peoria - CSO Long Term Control Plan
- B. Description: Completion of services related to the refinement and negotiation of the Long Term Control Plan.

2. Services of Engineer

AMEC will complete the following services during the development of a CSO Long Term Control Plan.

- A. Task 01 – Project Management including subcontractor/subconsultant management and preparation of required reports for U.S. EPA/IEPA, schedule updates, completed and anticipated activities and project summaries to the City.
- B. Task 02 – Public relations including conducting one (1) CRC meetings, two (2) neighborhood meetings and one (1) formal public hearing to solicit public input on the recommended green infrastructure opportunities and plan. This effort will also include preparing exhibits, fact sheets, and updating the Peoria CSO LTCP web site. The AMEC team will support City of Peoria staff in preparing exhibits and responding to questions as the LTCP is presented to City Council for adoption. This effort will include presentations at up to two (2) City Council meetings, as requested.
- C. Task 05A – Green Infrastructure Alternatives Development and Evaluation includes the technical work elements necessary to develop green infrastructure solutions and validate implementation of GI storm water management as the primary solution to address CSO in the City's LTCP. The work elements include:
- a. Desktop analysis and identification of GI project locations across the CSO
 - b. Update and refinement of existing SWMM and Hydrology models to support Green Infrastructure solution modeling
 - c. Flow monitoring activities
 - d. Green Infrastructure solution development and modeling, including technical memo, initial project identification, prioritization and ranking.
 - e. Advancement of Eco Machine Role in the CSO solution and LTCP.

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D. Tasks 04, 10, and 14 - Refinement and Negotiation of the LTCP - This task will include the following:

- **Economic Analysis.** The financial capabilities analysis will be updated to incorporate and address the anticipated costs associated with the implementation of the Green Infrastructure primary LTCP solution. This information will be used to establish the length of schedule allowed for project implementation. A socioeconomic analysis will be conducted regarding the impact of the recommended alternative to further refine proposed schedule elements and financial planning. In addition to the technical requirements of the Federal guidance documents, AMEC will refine the high-level rate impact model to support the development of a funding plan for the program.
- **Implementation Plan Refinement.** The Implementation Plan will need to be coordinated with the economic analysis, and will need to address financing, cash flow, sequencing of rate increases, and focus on the most beneficial projects as a priority. The Implementation Plan will be refined based on public and agency comment.
- **Cost Performance Considerations.** USEPA has offered a number of options to the City that will require evaluation for cost benefit analysis. This will help the City determine which alternative will provide the optimum benefit for the cost required.
- **Negotiation with USEPA and IEPA.** Continued negotiation assistance task will include review, planning, and participation in developing a comprehensive strategy for incorporating GI solutions into development of the LTCP. This task will also include assistance with negotiating strategy for consideration by the City's legal counsel in settlement discussions with U.S. EPA, IEPA and Department of Justice. Services will include the evaluation and application of green infrastructure technology and low impact development, as well as potential environmental projects to off-set civil penalties
- **Finalizing Approved Long Term Control Plan.** The AMEC team will continue to provide support including technical review and responses to the pending U.S. EPA complaint. This will involve technical analysis of options or scenarios developed by U.S. EPA (or its contractor) to justify Peoria's selection of the recommended alternative and implementation plan. It includes development of a GI Plan outline and City Council coordination and preparation of supporting information for presentations to Council.

3. Owner's Responsibilities

Owner shall have those responsibilities set forth in Article 2 and in Exhibit B.

4. Times for Rendering Services

<u>Description</u>	<u>Completion Date</u>
<u>Services of Engineer Described Above</u>	<u>March 31, 2015</u>

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5. **Payments to Engineer**

A. Owner shall pay Engineer for services rendered a total compensation value as follows:

Category of Services	Compensation Method	Estimate of Compensation for Services
Basic Services	Standard Hourly Rates	01 – Project Management - \$50,000.00 02 – Public Involvement - \$32,000.00 05A – Green Infrastructure Alternative Development and Evaluation - \$200,000 04, 10, 14 – Refinement of LTCP – \$88,000.00 Total Base Services - \$370,000.00
		06, 09, 12 Future Services – TBD 2015 scope and fee item

AMEC may alter the distribution of compensation between individual phases of the work noted above to be consistent with services actually rendered, but shall not exceed the total estimated compensation amount unless approved in writing by Owner. The terms of payment are set forth in Article 4 of the Agreement and in Exhibit C.

6. Other Modifications to Agreement: *(none)*
7. Attachments: *(none)*
8. **Documents Incorporated By Reference:** *(none)*

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Terms and Conditions: Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is June 10, 2014

OWNER:

City of Peoria

By: Name: Patrick UlrichTitle: City Manager

ATTEST:

By: Name: Beth BallTitle: City Clerk

ENGINEER:

AMEC Environment & Infrastructure, Inc.

By: Name: Gregory E. AsburyTitle: Vice President

REVIEW AND APPROVED:

By: Name: Sonni Choi WilliamsTitle: Interim Corporation CounselBy: Name: Michael RogersTitle: Director of Public Works

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By: _____
Name: Jane Gerdes


Title: Civil Engineer

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By: 
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**SCOPE OF WORK AMENDMENT
COMBINED SEWER OVERFLOW LONG TERM CONTROL PLAN
CITY OF PEORIA
AMEC E&I
May 20, 2014**

The City of Peoria (City) is required by the United States Environmental Protection Agency (USEPA) to prepare a CSO Long Term Control Plan (LTCP). The City has retained AMEC Environment and Infrastructure (AMEC) to assist in the development and implementation of the LTCP. Current negotiations between the City and USEPA have evolved to include the development of a Green Infrastructure (GI) primary LTCP solution and preparation of a Green Infrastructure Implementation Plan acceptable to USEPA. The following scope of work amendment is based on continued negotiations between the City and USEPA regarding the selection of a mutually agreeable alternative. The amendment outlines the primary work elements required to move the LTCP forward and meet the requirements of the USEPA through the end of 2014 and reallocates the estimated compensation for services outlined in Task Order No. 6.

Task 01 - Project Management

AMEC will provide overall project management including subcontractor/subconsultant management and preparation of required reports for U.S. EPA/IEPA, schedule updates, completed and anticipated activities and project summaries to the City. A monthly invoice broken down by task will be prepared describing monthly charges, task status and percent complete versus percent spent. Exceptions will be noted in the status report. A monthly project meeting for subcontractor coordination is included in this task.

Description	Estimated Compensation for Services
Task 01 – Project and Sub-consultant Management	\$50,000

Task 02 – Public Involvement/Communication

The AMEC team will continue to facilitate public participation to gain stakeholder communication and input. The Clean River Committee will be updated on the progress in the selection of the recommended alternative and discussion of green infrastructure opportunities, supplemental environmental projects and public education programs. This task includes support and coordination for the public hearing and two neighborhood educational meetings, including preparation of presentation materials and visuals, managing a 30-day comment period and documenting meeting notes and records. It is expected that the Clean River Committee will actively participate in the public hearing.

The project team will also continue to provide brief updates for the City Council and attend Council meetings, as requested.

The team will continue to maintain and update content on the program Web site (www.peoriacso.org.) Through the Web site and other public outreach activities, the team will maintain and update an electronic database of key stakeholders.

The team will provide documentation of the public outreach activities for inclusion in the final LTCP. This will require coordination meetings or telephone calls with the City and other direct costs to fulfill overall public outreach responsibilities.

Description	Estimated Compensation for Services
Task 02 – Public Involvement/Communication	\$32,000



Task 03 – Existing Condition Assessment

This task has been completed.

Task 04 - Financial Capabilities Analysis, Socioeconomic Assessment, Funding Plan

The financial capabilities analysis will be updated to incorporate and address the anticipated costs associated with the implementation of the Green Infrastructure primary LTCP solution. This information will be used to establish the length of schedule allowed for project implementation. A socioeconomic analysis will be conducted regarding the impact of the recommended alternative to further refine proposed schedule elements and financial planning.

The financial capabilities analysis update will include evaluating affordability and financial burdens for targeted populations within Peoria, particularly those with limited capacity to accept additional financial burden. AMEC will evaluate financing options and economic impacts associated with alternative implementation schedules. Particular sensitivity will be given to potential impacts on development and Peoria's revenue streams.

In addition to the technical requirements of the Federal guidance documents, AMEC will refine the high-level rate impact model to support the development of a funding plan for the program. The model will enable the consideration of alternative financing options, such as general or revenue bonds of varying maturities, use of low interest state revolving fund loans, equity sources, such as impact fees and user charges. To enable refinement of the financial model, the AMEC team will verify and update historical financial information from the City and will work with the City to identify appropriate financial planning and policy assumptions, such as the level of reserves, debt service coverage targets, and the level of debt vs. equity funding for the capital program. The team will continue to work with the City to identify up to three financial planning scenarios to evaluate. Each scenario will include assumptions for both the long-term control plan (cost and implementation schedule) and financing method (extent of borrowing, borrowing method and terms). The team will work with the City to select a preferred funding plan from the options evaluated, based on considerations such as the level of rate increases required, projected typical charges to residential customers, impact on the City's debt limit, and consistency the City's overall economic and financial goals and policies. Particular attention will be given to potential impacts on development and Peoria's revenue streams.

The product of this task will be memorialized in the final LTCP.

Description	Estimated Compensation for Services
Task 04 – Financial Capabilities Analysis, Socioeconomic Assessment, Funding Plan	\$26,000

Task 05A – GI Alternatives Development and Evaluation

This task includes the technical work elements necessary to develop green infrastructure solutions and validate implementation of GI storm water management as the primary solution to address CSO in the City's LTCP. The work elements include:

Desktop analysis and identification of GI project locations

The AMEC team will identify potential GI project locations through desktop analysis based on metrics including CSO inlet locations, size and impervious characteristics of drainage area, existing utility conflicts, scheduled CIP projects and needed flow reduction volumes. This work will build on the previous site investigation work and analysis that has been completed to date.



Existing model update

The existing CSO SWMM model includes pipes 30 inches and larger and will need to be extended to incorporate potential GI project locations and calibrated to represent system conditions. This includes inputting sub-sewersheds, soils, impervious characteristics, and land use.

Identification of pre-design monitoring locations

Pre-design monitoring locations will be identified based on the desktop analysis and updated modeling. The locations will be reviewed with City staff for potential conflicts.

Monitoring Activities

This sub-task includes the installation, monitoring and reporting on flow conditions for an estimated 25 +/- flow meters from June to December of 2014. The scope for continued pre-construction monitoring for 2015 will be refined based on the results of 2014 monitoring.

Hydrology Model Refinement and Calibration

The current hydrology information in the CSO SWMM model is based on a proprietary hydrology model. In order to proceed with incorporation of GI solutions and validation of GI performance, hydrology information will need to be incorporated into the CSO model and calibrated based on the additional monitoring information collected through the remainder of the year.

GI Modeling

Modeling input parameters for the GI practices will be assigned, developed, and input into the CSO model. Results and performance will be analyzed and proposed GI opportunities refined based on results. This will be an iterative process, resulting in a proposed network of GI projects that can be utilized to meet the CSO performance requirements.

Modeling Technical Memo

A technical memorandum that outlines the process, assumptions, results, refinements, and projected performance of the modeled GI elements will be prepared along with an executive summary for use with the City Council.

Advancement of Eco Machine role in CSO LTCP

John Todd Ecological Associates will continue to collaborate and provide services related to the potential incorporation of a central ecological feature project. This may include incorporation of Riverfront development undertaken in addition to CSO control measures.

Initial GI Project Identification, Prioritization and Ranking

In order to compare and prioritize potential GI projects each site will be evaluated based on site data and performance measures including watershed area and primary land use, current system conditions, impervious surface managed, projected volume reduction, construction and maintenance costs, and engineering judgment of non-monetary implications. The evaluation of the locations will be a screening process leading to the development of a recommended prioritization schedule for implementation. The process will include consideration of the following attributes:

- Cost and Performance
- Non Monetary Factors
- Advantages / Disadvantages

Selection and prioritization is not based solely on cost, therefore, non-monetary factors will be considered in the prioritization. For the proposed GI BMPs sites, Non-Monetary Factors include:

- Location and Project Visibility (including traffic and site access)



- Potential Water Quality Volume Treated
- Surrounding Land Use / Public Education / Aesthetic Opportunities
- Ease of Construction
- Floodway and Floodplain constraints
- Coordination with other CIP Projects
- Ongoing Maintenance Requirements
- Ease of Monitoring

Description	Estimated Compensation for Services
Task 05A – GI Alternatives Development and Evaluation	\$200,000

Task 06 - Cost Performance Considerations and Implementation Plan

This task will be performed as part of 2015 work, and will be budgeted upon completion of Task 5 activities. The preferred schedule will be presented to the City Council with the recommended alternative. The recommended schedule will be incorporated into Section 8 of the LTCP.

Description	Estimated Compensation for Services
Task 06 – Cost Performance Considerations and Implementation Plan	2015 Task and fee update

Task 07 - Operational Plan

This task was part of the original LTCP Scope and has been completed.

Task 08 - Maximization of Treatment at GPSD

This task was part of the original LTCP Scope and has been completed.

Task 09 – Post-Construction Monitoring Program

The post construction monitoring program will include evaluating up to three (3) post construction monitoring approaches for risk implications and compliance demonstration.

A long term monitoring plan is required to measure how well the implemented controls are working with respect to system operations and water quality improvements. The long term monitoring plan will be established to provide ongoing documentation of collection and treatment system performance and to evaluate water quality of the Illinois River and changes observed from control of CSOs.

System monitoring will consist of permanent monitors and inspections that will be part of the overall operational controls and maintenance procedures. The monitoring program will be built on the locations and analytical protocols established in the water quality baseline monitoring effort defined in the LTCP. Program elements and data management procedures will be set forth in Section 9 of the CSO LTCP.

Description	Estimated Compensation for Services
Task 09 – Post Construction Monitoring Program	2015 Task and fee update

Additional coordination and documentation that will be required during design and construction of improvements following U.S. EPA approval of the LTCP is not included in this scope of services.



Task 10 – Additional Negotiation Assistance

Continued negotiation assistance task will include review, planning, and participation in developing a comprehensive strategy for incorporating GI solutions into development of the LTCP. This task will also include assistance with negotiating strategy for consideration by the City's legal counsel in settlement discussions with U.S. EPA, IEPA and Department of Justice. Services will include the evaluation and application of green infrastructure technology and low impact development, as well as potential environmental projects to off-set civil penalties.

Description	Estimated Compensation for Services
Task 10 – Additional Negotiation Assistance	\$22,000

Task 11 – Value Engineering

This task has been completed.

Task 13 – Funding Procurement

This task has been completed.

Task 14 – Technical Support for EPA Complaint

The AMEC team will continue to provide support including technical review and responses to the pending U.S. EPA complaint. This will involve technical analysis of options or scenarios developed by U.S. EPA (or its contractor) to justify Peoria's selection of the recommended alternative and implementation plan. It includes development of a GI Plan outline and City Council coordination and preparation of supporting information for presentations to Council.

Description	Estimated Compensation for Services
Task 14 – Technical Support for EPA Complaint	\$40,000

Task 15 – Previously Performed Out-Of-Scope Items

This task is completed.

Previously Scoped Optional Additional Services

Task 12 – Small/Woman/Minority Business Enterprise (S/W/MBE) Development

The nature and scope of the infrastructure investment that the City will make is unprecedented in recent history. Demand for qualified contractors and experienced craft-workers will be at a premium. The City may elect to take additional steps beyond information exchange in order to build the capacity and capabilities within the S/W/MBE community. This optional service will help augment steps already taken by the City through the ePrismSoft initiative to inform and engage this target community early in the process in order to develop the specific crafts and technology that is required by LTCP implementation. The goal is to help the S/W/MBE be prepared to meaningfully contribute to the construction of the LTCP. Building new capabilities and capacity not only takes time, but also a fairly precise definition of construction requirements. As a result this optional task may be considered now or later during more detailed engineering.

- Conduct stakeholders outreach to seek input from community leaders, S/W/MBE firms, and prime contractors to develop a general plan of action. This forum will also be used to update the stakeholders on potential projects.
- Develop a partnering program that engages targeted firms early in the process to identify potential teaming opportunities prior to the bidding/proposal announcements. This is another opportunity for targeted firms to form a partnering strategy with each



other as well. This effort will adapt methods used in the Illinois Department of Transportation Mentor/Protégé program.

- Work with local organizations to sponsor financial-marketing and strategy planning seminars on typical capacity building programs. This effort would collaborate with existing organizations serving the S/W/MBE community in order to facilitate growth of new S/W/MBE businesses, as well as with educational and training institutions in order to facilitate growth of new qualified individual craft-workers.

The key aspect for meaningful involvement by the S/W/MBE community is based upon the specific GI measures adopted by the City. Once the City approves the GI approach (Task 5A) this task budget will be adjusted. For 2014 the activities performed in support of this task will be incorporated into Tasks 1, 2 and 5A and an adjustment to Task 12 budget proposed in 2015.

Description	Estimated Compensation for Services
Task 12 – S/W/MBE Development (Phase 2)	2015 Task and fee update

Task 16 – Early Action Projects

This task was offered in earlier amendments and is completed.

Task 17 – Sustainable Infrastructure Development

This task was offered in earlier amendments and is completed.

Task 18 – UAA Preliminary Tasks

This task was offered in earlier amendments and is completed.



Summary of Additional Estimated Compensation for Basic Services by Task

Description	Anticipated Hours	Estimated Compensation for Services
Task 01 – Project Management & Team Meetings	274	\$50,000
Task 02 – 2014 Public Involvement/Communication	192	\$32,000
Task 03 – Existing Condition Assessment	0	\$0
Task 04 – Financial Assessment	156	\$26,000
Task 05A – Alternative Development and Evaluation	1390	\$200,000
Task 06 – Cost Performance Considerations and Implementation Plan	0	2015 Scope and fee item
Task 07 – Operational Plan	0	\$0
Task 08 – Maximization of Treatment at GPSD	0	\$0
Task 09 – Post Construction Monitoring Program	0	2015 Scope and fee item
Task 10 – Additional Negotiation Assistance	116	\$22,000
Task 11 – Value Engineering	0	\$0
Task 12 - S/W/MBE Development (Phase 2)	0	2015 Task and fee update
Task 13 - Funding Procurement	0	\$0
Task 14 - Technical Support for EPA Complaint	258	\$40,000
Estimated Total Compensation for Basic Services	2386	\$370,000