

TECHNICAL ASSISTANCE – STORMWATER/GREEN INFRASTRUCTURE PROJECT FUNDS FOR STRENGTHENING THE MS4 PROGRAM AND INNOVATIVE USES OF GREEN INFRASTRUCTURE, CITY OF BIRMINGHAM

REVISION 0

Prepared Under:

U.S. EPA Contract No. EP-S4-09-02

U.S. EPA Task Order No. 078

Black & Veatch Project No. 049078

DCN: 49078-0471-01-C-02179R0

Prepared For:

U.S. Environmental Protection Agency Region 4

Atlanta, Georgia



Prepared By:

Black & Veatch Special Projects Corp.

1120 Sanctuary Parkway, Suite 200

Alpharetta, Georgia 30009



BLACK & VEATCH
Building a **world** of difference.®

September 18, 2015

Except for data contained on all pages of Attachment B of this document, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing hereon, the Government shall have unlimited rights (as defined in Contract No. EP-S4-09-02) in and to the technical data contained in this document upon which this task order is based.

This Page Intentionally Left Blank

Table of Contents

Acronyms and Abbreviations	AA-1
1.0 Introduction	1-1
1.1 Site description	1-1
1.2 Scope of Work.....	1-1
2.0 Technical Approach	2-1
2.1 Task 1 – Project Planning and Support	2-1
2.2 Task 2 – Expert technical assistance	2-4
2.3 Task 3 – Work Assignment/Task Order Closeout.....	2-6
3.0 Quality Control Measures	3-1
4.0 Project Milestones.....	4-1
4.1 Project Schedule	4-1
4.2 Project Deliverables	4-1
4.3 Project Staffing.....	4-1
5.0 Cost Estimate.....	5-1
6.0 Exceptions to Task Order, Anticipated Problems, and Special Requirements.....	6-1
6.1 Exceptions to Task Order	6-1
6.2 Anticipated Problems	6-1
6.3 Special Requirements	6-1

LIST OF TABLES

Table 4-1	Schedule of Deliverables/Project Schedules
Table 4-2	Proposed Staff
Table 6-1	Scope of Work Contingency Plan to Address Potential Issues

LIST OF ATTACHMENTS

Attachment A	EPA Statement of Work
Attachment B	Cost Sheets

This Page Intentionally Left Blank

Acronyms and Abbreviations

Black & Veatch	Black & Veatch Special Projects Corp.
COI	conflict of interest
COR	Contract Officer Representative
CRO	Comment Resolution Owner
EPA	U.S. Environmental Protection Agency
PgM	Program Manager
PM	Project Manager
POP	period of performance
QA	Quality Assurance
QC	Quality Control
QAM	Quality Assurance Manager
QAPP	Quality Assurance Plan
QMP	Quality Management Plan
RAC	Remedial Action Contract
SOW	Statement of Work
TA	Technical Assistance
TO	Task Order
TOCR	Task Order Closeout Report
TOM	Task Order Manager
WBS	Work Breakdown Structure

This Page Intentionally Left Blank

1.0 Introduction

The U.S. Environmental Protection Agency (EPA) has initiated procedures for Black & Veatch Special Projects Corp. (Black & Veatch) to provide technical assistance (TA) through the Stormwater/Green Project Funds for the project “Strengthening the MS4 Program and Innovative Uses of Green Infrastructure for the City of Birmingham, Alabama.”

This Work Plan for TA has been prepared by Black & Veatch under EPA Region 4 Remedial Action Contract (RAC) II Number EP-S4-09-02, under specific authorization through Task Order (TO) No. 076-RDRD-04N3. A copy of the TO Statement of Work (SOW) is included in Attachment A. This Work Plan describes the tasks that the Black & Veatch project team will perform in providing technical and administrative assistance to the EPA. The period of performance (POP) to complete this TO ends January 30, 2016.

1.1 SITE DESCRIPTION

A description of the Site is included in the SOW included in Attachment A.

1.2 SCOPE OF WORK

The purpose of this task order is to provide TA to EPA for strengthening the MS4 (municipal separate stormwater sewer system) program in the City of Birmingham. The EPA SOW, dated August 27, 2015, and the scoping meeting, conducted September 3, 2015, defined the tasks to be included in the TA Work Plan as follows:

- Task 1 – Project Planning and Support
- Task 2 – Expert Technical Assistance
- Task 3 –Task Order Closeout

This Page Intentionally Left Blank

2.0 Technical Approach

This section of the Work Plan describes the technical approach to the tasks to be performed under this TO in providing technical support to the EPA. Task numbers correspond to the EPA work breakdown structure (WBS) for the RAC program for performing TA activities and provide a manageable and efficient means of budgeting and tracking project activities. These tasks, as described within the EPA SOW, and as defined during the scoping meeting, will be performed under Black & Veatch project number 049078 as discussed below.

Each task number will be used to account for the associated costs for project activities. The cost estimates for the tasks associated with the Work Plan activities are included as Attachment B of this Work Plan.

2.1 TASK 1 – PROJECT PLANNING AND SUPPORT

This task includes all necessary activities to plan, execute, and manage the tasks specified in the EPA SOW.

- **Subtask 1.1 Project Planning.** The subtasks presented below include activities involved in preparing the Work Plan.

- **1.1.1 Attend Scoping Meeting.**

Labor Category	Hours	Description	Assumptions
Engineer Mid-Level	2	The scoping meeting was a conference call held on September 3, 2015, to discuss the TO for the purpose of developing the Work Plan.	The Black & Veatch Program Manager (PgM), Deputy PgM, Project Manager (PM)/Task Order Manager (TOM), and Mid-Level Engineer participated in the scoping meeting.
Program Manager	2		
Project Manager	2		Meeting minutes were submitted to the Contract Officer Representative (COR) on September 8, 2015. The subtask includes effort for preparation for meeting, meeting attendance, and preparation and review of the meeting minutes.
Total Hours	6		

- 1.1.2 Develop Work Plan and cost estimate.

Labor Category	Hours	Description	Assumptions
Clerical	3	This Work Plan/cost estimate (Rev 0) is being developed to include a detailed description of the technical approach for the TA activities in accordance with the SOW and scoping meeting.	The Work Plan will specify the necessary procedures, inspections, deliverables, and schedules including a comprehensive implementation schedule for completion of each major activity and submittal. Per the SOW and the scoping meeting conducted September 3, 2015, the Work Plan, Rev 0, is scheduled to be submitted on September 18, 2015. Effort for negotiating and submitting a revised work plan has not been included, as discussed during the scoping meeting.
Engineer Mid-Level	10		
Program Manager	1		
Project Manager	4		
Quality Assurance (QA)/ Quality Control (QC)	1		
Total Hours	19		

- 1.1.3 Negotiate Work Plan and cost estimate. As directed by EPA in the SOW, no costs are included for this subtask.

- 1.1.4 Provide conflict of interest disclosure.

Labor Category	Hours	Description	Assumptions
Clerical	2	Black & Veatch will search its corporate project database(s) and will provide to the EPA a conflict of interest (COI) disclosure based on the outcome of that search.	A minimal amount of effort will be required.
Total Hours	2		

- **Subtask 1.3 Project Management.** Project management activities are those planning and support tasks that provide project control and ensure that all project activities are performed according to scope, accurately, efficiently, and on schedule.

- **1.3.1 Monitor costs and prepare periodic status reports.** The Black & Veatch Project Manager (PM)/Task Order Manager (TOM) will maintain project control. The PM/TOM will be responsible for keeping the EPA informed of the direction of project work; compliance with schedules and budgets; performance of reviews, content, and format of review comments; and day-to-day work coordination and monitoring of project staff.

The PM/TOM is also responsible for providing the EPA technical, financial, and schedule status reports on a monthly basis throughout the life of the project. The PM/TOM will discuss individual subtasks with the COR before and after each work event to facilitate consistent and thorough cost control. Informal accounting of costs will be provided at the request of the COR for individual task events. Highly qualified personnel with appropriate professional backgrounds will be assigned to perform project tasks.

Quality Control (QC) will be carried out in accordance with the Black & Veatch Corporate Quality Assurance Program Policy, relevant EPA Region 4 requirements as outlined by the Region 4 Quality Assurance Officer, and the Quality Assurance Project Plan (QAPP) developed for the TO. Ultimate responsibility for QC rests with the PM/TOM, although various QC personnel will assist the PM/TOM.

Labor Category	Hours	Description	Assumptions
Accountant	8	Effort has been estimated to prepare and submit 6 monthly financial and technical status reports from September 2015 through February 2016.	Prepare monthly financial reports.
Clerical	6		Produce reports.
Project Manager	3		PM/TOM will prepare the monthly reports.
Program Manager	3		Report, project review, and monitor quality and financial reports.
Total Hours	20		

- **1.3.2 Meeting Participation and Routine Communication.** No costs are included for this subtask.
- **1.3.3 Accommodate EPA Audit. Black & Veatch will accommodate any external audit or review mechanism the EPA shall require.** No costs are included for this subtask.

2.2 TASK 2 – EXPERT TECHNICAL ASSISTANCE

■ Subtask 2.1 Project Meetings

Labor Category	Hours	Description	Assumptions
Engineer Mid-Level	36	Coordinate and attend meetings with City Staff, ADEM and ASCE per the Scope. - Kickoff meeting with City PM - 2 meetings with City Engineering and PM - 2 meetings with ASCE - 1 meeting with City Attorney and PM - 1 meeting with ADEM	<ul style="list-style-type: none"> Proposed modification of the Scope to include only 2 meetings with ASCE and to combine PM meetings with other City staff meetings. Kickoff meeting with City PM via conference call. 2 trips to meet with ASCE (twice), ADEM (once), and City Staff as available. Additional meetings with City Staff via conference call. Travel expenses will include two trips from Philadelphia, PA, to Birmingham, AL one being an overnight trip, and two trips from Atlanta, GA, to Birmingham, AL.
Project Manager	22		
Total Hours	58		

■ Subtask 2.2 Review Relevant Requirements and Implementation Approach

Labor Category	Hours	Description	Assumptions
Engineer Mid-Level	60	Black & Veatch will identify and review 6 City or State Post-Construction Stormwater Regulations, develop a tabular summary of the control criteria, flexibility and re-development controls/incentives, and make recommendations specific to Birmingham. Also will make recommendations as to integration of common elements of MS4 program and Watershed Management Plans.	<ul style="list-style-type: none"> Review to be limited to 6 existing MS4 Permits/Post Construction Regulations. Tabular presentation of results
Engineer - Senior	8		
Project Manager	2		
Total Hours	70		

■ Subtask 2.3 Update City of Birmingham Specific Long-term Rainfall Analyses

Labor Category	Hours	Description	Assumptions
Engineer - Junior	36	Black & Veatch will conduct a spreadsheet based statistical analysis of historical rainfall data to determine storm frequencies and depth. The analysis of the rainfall time-series data will consist of wet weather event identification, event depth totals, and be used to determine the cumulative frequency distribution (CDF) of event depths. The CDF can be used to determine the rainfall exceedance risk, which can be used as a basis for determining a percent reduction in potential runoff for water quality volume controls. Black & Veatch will consider potential climate change impacts on precipitation characteristics under each of the control scenarios by assuming a conservative percent change in rainfall characteristics as predicted in available climate change tools, EPA or other.	<ul style="list-style-type: none"> City to provide rainfall analysis conducted previously. Conduct frequency analysis on historical data from up to 3 existing rain gages in the City. Reduction estimates to consider 3 different control scenarios (to be defined in consult with the City and based on the rainfall analysis and the results of Task 2.3). Black & Veatch will use readily available climate change planning tools. No detailed research to be conducted on climate impacts in Birmingham.
Engineer – Mid-level	4		
Engineer - Senior	8		
Project Manager	2		
Total Hours	50		

■ Subtask 2.4 Review Guidance Documentation for Implementing Runoff Controls

Labor Category	Hours	Description	Assumptions
Engineer Mid-Level	36	BV will review available City documentation, identify gaps relevant to stormwater management and make recommendations for modifications or additions necessary to implement Post Construction Stormwater requirements within the City. BV will review and consider ADEM's LID Handbook as a potential resource for the City.	<ul style="list-style-type: none"> City will provide all relevant documentation such as guidelines, ordinances, plan review process, etc. Black & Veatch will provide technical recommendations related to stormwater management regulations, but will not provide detailed ordinance language, legal opinions or review of roles and responsibilities within the City.
Engineer Senior	4		
Project Manager	2		
Total Hours	42		

■ Subtask 2.5 Documentation

Labor Category	Hours	Description	Assumptions
Clerical	8	Three Tech Memos will be produced to document the outcome of Subtasks 2.2-2.4. These Tech Memos will be primarily comprised of tables and figures documenting our findings followed by recommendations based on these results.	A Tech Memo will be produced and submitted to the City of Birmingham upon the completion of each of Tasks 2.2, 2.3 and 2.4.
Engineer Mid-Level	36		
Engineer Senior	4		
Project Manager	4		
Total Hours	52		

2.3 TASK 3 – WORK ASSIGNMENT/TASK ORDER CLOSEOUT

This task concerns activities that are part of the project closeout once the stop work modification is initiated for the TO.

- **Subtask 3.1 Package and return documents to the government. Package and Return Documents to the EPA.** Once all work is completed, Black & Veatch will prepare the project files for transfer to the EPA for archiving.
- **Subtask 3.2 – File Duplication, Distribution, and Storage.** (Included in Subtask 14.1) This subtask involves the duplication of files, as necessary, in order to distribute the files to other repositories. Damaged files and portions will be reproduced before storage.
- **Subtask 3.3 – File Archive.** (Included in Subtask 14.1) In performing this subtask, Black & Veatch will prepare files for archiving to meet Federal Record Center requirements.
- **Subtask 3.4 – Produce Microfiche/Microfilm/Optical Disk or Other EPA-Approved Storage Format.** (Included in Subtask 14.1) This subtask involves the copying of files on compact disks.
- **Subtask 3.5 Prepare Work Assignment/Task Order Close-out Report (TOCR).** A TOCR, in accordance with the regional guidance, will be prepared. This report summarizes all work performed under this assignment.

Labor Category	Hours	Description	Assumptions
Clerical	2	Document closeout and storage.	<p>Return Documents to the EPA - Preparation will include the following activities:</p> <ul style="list-style-type: none"> Collecting all project related documents (including subcontractor files, as appropriate). Organizing the documents into a master file with an index. Reviewing the master file for technical content. Completing a file inventory. <p>File Duplication, Distribution, and Storage Black & Veatch will duplicate all project files, as necessary, in order to prepare a complete set of documents for distribution to the EPA. Black & Veatch will also prepare a set of project specific files suitable for storage by Black & Veatch.</p> <p>File Archive - project files will be burned to CD.</p> <p>Cost and Performance Report - The report will document the costs incurred during the RA in addition to the level of success of the remedy. Black & Veatch will prepare the report in accordance with the format specified in the TO.</p>
Program Manager	2		
Project Manager	1		
Total Hours	5		

This Page Intentionally Left Blank

3.0 Quality Control Measures

Work activities on this TO will be conducted in accordance with the procedures defined in the Black & Veatch RAC II Quality Management Plan (QMP). Our QMP defines the authority, responsibilities, and procedures for QC. The implementation of QA policies begins as soon as the TO is received and continues throughout the planning, execution, and close out phases of the project. The formal review process is an effort to verify accuracy and validate the effectiveness and compliance of the work effort deliverable. The review team assembled for each specific task of this assignment will review all major deliverables. This procedure should expedite the EPA's review of submittals by ensuring that a sufficient degree of QC was maintained throughout the project providing work products that are conceptually correct, complete, easy to understand, and meets contract requirements in Revision 0 and subsequent deliverable revisions.

The Black & Veatch RAC II Program Quality Assurance Manager (QAM) or designee will be responsible for the management and performance of our internal review process. The QMP defines the focus of the formal review process as it relates to the type of deliverable. The TOM or an appointed Comment Resolution Owner (CRO), in conjunction with the program QAM, will schedule the necessary QC personnel for the review of deliverables submitted as part of this work effort.

Guidelines for QC review personnel necessary for any given deliverable are defined in the QMP and are dependent upon the type of review requested. The personnel utilized may fulfill several functions of the review process including: the CRO, discipline review, project review, and independent review.

The CRO will facilitate the scheduling of the review, assess comment disposition, verify accepted comments are adequately incorporated, and coordinate records retention. The discipline review may include several reviews from each member of a flexible, multi-disciplinary review team able to provide input into each area of specialization presented in a deliverable. Work products such as standard designs, drawings, specifications, and calculations will be checked in detail. The project review is conducted by someone other than the TOM or Black & Veatch professional that participated in the direct preparation of the work product. The project review ensures consistency with TO scope, COR specific requests, general EPA requirements and overall technical content. The independent review of deliverables will be conducted to ensure the deliverables are accurate, clear, concise, and conform to both corporate and EPA requirements.

Program Management, the QAM, or EPA requirements may indicate the need for periodic audits to verify that QA procedures are being consistently and correctly applied and that, when correctly applied, they are effective. Performance of an audit may be by the Program QAM, their designee, or other subject matter expert as required by the type of audit. Guidelines for the focus of an audit are presented in the RAC II QMP while the Black & Veatch Quality Management Policy dictates the procedures for the performance of the audit, documentation, and disposition of records. The audit report will contain a brief description of the audit; identification of compliance status; observations of best practice and non-conformances; and analysis of corrective action status if appropriate. The results of any audits performed by Black & Veatch on this TO will be submitted to RAC II Program Management, the QAM, and any other relevant parties as necessary.

This Page Intentionally Left Blank

4.0 Project Milestones

4.1 PROJECT SCHEDULE

The project schedule for this TO will generally follow the schedule outlined in the SOW for the TO in terms of the order in which deliverables are to be submitted. Deliverable dates for document review comments and other support services will be based on individual documents and agreed to by both the EPA and the Black & Veatch TOM. The project schedule is provided in Table 4-1. In order to meet the period of performance end date for the TO the following assumptions were made in preparing the project schedule:

4.2 PROJECT DELIVERABLES

Specific project deliverables are listed in Table 4-1 and defined in the SOW, along with the projected dates of submission and the number of copies required. Other project deliverables that require EPA input or approval but that are not specifically called out in the SOW are as follows:

- Monthly status reports including financial as well as performance information.
- Responses to comments from the EPA review of documents scheduled as deliverables.

4.3 PROJECT STAFFING

Staff and managers proposed for this TO are presented in Table 4-2. As noted in the table, Black & Veatch may assign additional or alternative professionals and support staff with equivalent qualifications to lead and support the work.

This Page Intentionally Left Blank

5.0 Cost Estimate

The estimated project budget is based on projected cost considerations. Attachment B of this Work Plan provides a detailed cost estimate by task and subtask for the activities anticipated for the RD along with the assumptions used to compile these estimates.

This Page Intentionally Left Blank

6.0 Exceptions to Task Order, Anticipated Problems, and Special Requirements

Listed below are certain WBS elements, listed by task, that were included in the SOW, Attachment 2, WBS, dated August 27, 2015, that were not specifically tasked during the scoping meeting or subsequent conversations with the EPA; therefore, no costs or scope has been provided in this Work Plan.

This section describes anticipated problems, possible changed conditions, or special requirements that may be associated with this TO and are not covered by the Work Plan cost estimate provided in Attachment B. Should unforeseen factors arise, or if the current SOW is changed, the EPA will be properly notified and any necessary modifications to the TO will be made to adjust for the changes. It is understood that such changes require the approval of the COR.

6.1 EXCEPTIONS TO TASK ORDER

Task 1 – Project Planning and Support.

- 1.1.3 Negotiate Work Plan and Cost Estimate. No costs were included for the subtasks.
- 1.3.2 Participate in meetings/communicate routinely/prepare meeting minutes. Addressed in Subtask 2.1, Project Meetings.
- 1.3.3 Accommodate EPA Audit. Black & Veatch will accommodate any external audit or review mechanism the EPA shall require. No costs are included for this subtask.

6.2 ANTICIPATED PROBLEMS

As with any remedial planning project, problems and issues do arise that must be resolved in order to complete the project in a timely manner. The contingency plan, which is presented in Table 6-1, has been developed to address such areas of concern. Several potential issues have been listed to demonstrate how these issues will be addressed during the course of the work assignment. While this list is not all-inclusive of the problems or issues that may arise, it offers guidance on how such areas of concern will be handled.

6.3 SPECIAL REQUIREMENTS

No special requirements have been specified for this TO at this time.

This Page Intentionally Left Blank

Tables

This Page Intentionally Left Blank

Table 4-1. Schedule of Deliverables/Project Schedule			
Task	Deliverable / Milestone (WBS)	Copies	Milestone/Due date
1	Scoping Meeting Minutes (WBS 1.1.1)	Electronic	September 8, 2015
	Work Plan and Cost Estimate, Rev 0 (WBS 1.1.2)	Electronic	September 28, 2015
	Conflict of Interest Disclosure (WBS 1.1.4)	Electronic	Complete before Work Plan Submittal
	Progress reports (WBS 1.3.1)	Electronic	Monthly
2	Tech Memo with a summary recommending: (1) runoff control/treatment options for the City of Birmingham; (2) storm event criteria for design; (3) flexibility in implementing requirements; and (4) definitions for “development” and “redevelopment” (WBS 2.5)	Electronic	Revision 0: October 23, 2015 Revision 1: November 6, 2015
	Tech Memo with an analysis of long-term representative rainfall data for the City of Birmingham showing average annual reductions under various control requirements (WBS 2.5)	Electronic	Revision 0: November 13, 2015 Revision 1: December 1, 2015
	Tech Memo with a summary of the City of Birmingham’s current site development guidelines and plan review process along with recommendations of new alternative design approaches, redevelopment incentives, and where LID/GI and pollution prevention measures can be incorporated (WBS 2.5)	Electronic	Revision 0: December 18, 2015 Revision 1: January 8, 2016
3	Task Order Closeout Report (WBS 3.5)	3	As specified in EPA closeout notice

This Page Intentionally Left Blank

Table 4-2 Proposed Staff*		
Professional Name	Task Order Role	RAC II Labor Category
Gina Montgomery	RAC II Program Manager	Program Manager
Joseph Slykerman	RAC II Deputy Program Manager/Contracts Administrator	Program Manager
Nancy Geller, P.E.	Project Manager	Project Manager
Daniel Shaw, P.E.	Senior Engineer	Project Manager
Rich Hayslett, P.E.; Andrew Smith, P.E.	Senior Engineer	Sr. Engineer
Leah Gaffney, P.E.	Water Resources Engineer	Mid-Level Engineer
Ricardo Gamarra	Civil Engineer	Junior Engineer
Debie Steilen	Project Accounting	Accountant
Andy Pitts	Quality Assurance Manager	QA/QC
Florence Love	Administrative Support	Clerical
Stacie Kimbro	Administrative Support	Clerical

*These individuals are identified as candidates for conducting the work described in this work plan. Black & Veatch may assign additional or alternative professionals and support staff with equivalent qualifications to lead and support the work.

This Page Intentionally Left Blank

Table 6-1. Scope of Work Contingency Plan to Address Potential Issues	
Potential Issue	Contingency Response
Subtask elements of this assignment not fully scoped at this time	Notify EPA of issues and await direction before proceeding. Prepare cost estimate for modified scope as directed.
Changes in program functions	Consult with EPA COR and Black & Veatch program personnel, as appropriate, and incorporate new guidance into project deliverables.


This Page Intentionally Left Blank

Attachments

This Page Intentionally Left Blank

Attachment A - EPA Statement of Work

This Page Intentionally Left Blank

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
002		See Block 16C		PR-R4-15-00458			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
Region 4		R4					
US Environmental Protection Agency							
Atlanta Federal Center							
61 Forsyth Street, SW							
Atlanta GA 30303-3104							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x) 9A. AMENDMENT OF SOLICITATION NO.			
BLACK & VEATCH SPECIAL PROJECTS CORP.							
Attn: LOIS SCHLETZBAUM				9B. DATED (SEE ITEM 11)			
6601 COLLEGE BOULEVARD							
OVERLAND PARK KS 662111504							
				x 10A. MODIFICATION OF CONTRACT/ORDER NO.			
				EP-S4-09-02			
				0078			
				10B. DATED (SEE ITEM 13)			
				08/27/2015			
CODE 603168931		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				Net Increase:		\$200.00	
See Schedule							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) B.6 Funding						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 603168931							
TECHNICAL ASSISTANCE-STORMWATER/GREEN INFRASTRUCTURE PROJECT CITY OF BIRMINGHAM							
Task Order Type: Time and Materials							
TOCOR: Luis Flores Max Expire Date: 01/30/2016							
This modification serves as a corrective action to modification #001 to obligate the remaining \$200.00 from PR-R4-15-00458. The total obligated ceiling is \$42,200.00.							
ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.							
LIST OF CHANGES:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Stacy Hill			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 09/02/2015	
NSN 7540-01-152-8070 Previous edition unusable				STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243			

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	EP-S4-09-02/0078/002	2	3

NAME OF OFFEROR OR CONTRACTOR

BLACK & VEATCH SPECIAL PROJECTS CORP.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Reason for Modification : Funding Only Action Obligated Amount for this Modification: \$200.00 New Total Obligated Amount for this Award: \$42,200.00 Incremental Funded Amount changed: from \$42,000.00 to \$42,200.00 CHANGES FOR LINE ITEM NUMBER: 2 Description changed from STORMWATER/GREEN INFRASTRUCTURE PROJECT CITY OF BIRMINGHAM to STORMWATER/GREEN INFRASTRUCTURE PROJECT CITY OF BIRMINGHAM Obligated Amount for this modification: \$200.00 Incremental Funded Amount changed from \$22,000.00 to \$22,200.00</p> <p>Delivery Location Code: R4 Region 4 US Environmental Protection Agency Atlanta Federal Center 61 Forsyth Street, SW Atlanta GA 30303-3104 USA</p> <p>Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>FOB: Destination Period of Performance: 08/27/2015 to 01/30/2016</p> <p>Change Item 0002 to read as follows (amount shown is the obligated amount):</p> <p>0002 STORMWATER/GREEN INFRASTRUCTURE PROJECT CITY OF BIRMINGHAM</p> <p>Accounting Info: 15-16-B-23D30H4-202BD4X15-2505-1523D3E008-001 BFY: 15 EFY: 16 Fund: B Budget Org: 23D30H4 Program (PRC): 202BD4X15 Budget (BOC): 2505 DCN - Line ID: 1523D3E008-001 Funding Flag: Complete Funded: \$200.00 The contractor shall not make expenditures or incur obligations under this task order in excess of the funding ceiling price, except at the contractor's own risk. Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
EP-S4-09-02/0078/002PAGE OF
3 3

NAME OF OFFEROR OR CONTRACTOR

BLACK & VEATCH SPECIAL PROJECTS CORP.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>When the contractor has reason to believe that the costs for this task order, which will accrue in the next thirty (30) days, will bring the total cost of this task order over seventy five (75) percent of the available funding specified in the task order, the contractor shall notify the Contracting Officer. Additional funding as needed shall be provided incrementally through a task order modification.</p> <p>EPA Contacts:</p> <p>Contracting Officers Representative (COR) Luis Flores (404) 562-8807</p> <p>Alternate CORs: Charles Swan (404) 562-8848</p> <p>Meredith Clark (404) 562-8919</p> <p>Task Order COR Elizabeth Belk (404) 562-9377</p> <p>Contracting Officer Stacy Hill (404) 562-8375</p> <p>Contract Specialist Samuel Richardson (404) 562-8824</p>				

This Page Intentionally Left Blank

Attachment B - Cost Sheets

This Page Intentionally Left Blank

PROJECT INFORMATION	
Client Name:	USEPA Region 4
Contract Number:	EP-S4-09-02
Contract Implementation Date:	6/29/2009
Site Name:	Stormwater/Green Infrastructure Project
Site Location:	Birmingham, AL
Task Order No.:	078
Activity Code:	
Start Date:	8/27/2015
End Date:	1/30/2016
Work Type:	TATA
Site-Specific Work Area Code:	NA
OU No.:	NA
Work Form:	Time and Materials
EPA COR:	Elizabeth Belk
Project Officer:	Luis Flores
Site Spill ID (S/SID):	
Allocation Code:	
Budget Approval Status:	Pending
Account No.:	
DCN No.:	49078-0471-01-C-02179R0
Mod No.:	original, 001, 002
Mod Date:	8/27/15, 8/28/15, 9/2/15
Current Expenditure Limit - \$:	\$42,200
Black & Veatch	
Project Number:	49078
B&V Document Control Number:	49078-0471-01-C-02179R0
Program Manager:	Gina Montgomery
Task Order Manager:	Nancy Geller
Project Engineer:	
Project Scientist:	
Estimated By:	Nancy Geller
Estimated Date:	9/15/2015
Approved By:	Gina Montgomery
Approved Date:	9/18/2015

BURDENED LABOR RATES BY CONTRACT YEAR								
	Base		Option Period 1			Option Period 2		
Contract YR	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
LABOR CATEGORY	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8
Accountant	\$81.70	\$84.15	\$86.67	\$89.27	\$91.95	\$94.71	\$97.55	\$100.48
Architect - Junior	\$59.47	\$61.25	\$63.09	\$64.98	\$66.93	\$68.94	\$71.01	\$73.14
Architect - Mid-Level	\$84.50	\$87.03	\$89.64	\$92.33	\$95.10	\$97.95	\$100.89	\$103.92
Architect - Senior	\$105.82	\$108.99	\$112.26	\$115.63	\$119.10	\$122.67	\$126.35	\$130.14
Clerical	\$48.12	\$49.56	\$51.05	\$52.58	\$54.16	\$55.78	\$57.46	\$59.18
Construction Mgr < 3 Months	\$108.64	\$111.90	\$115.26	\$118.71	\$122.28	\$125.94	\$129.72	\$133.61
Construction Mgr > 3 Months	\$74.91	\$77.16	\$79.47	\$81.86	\$84.31	\$86.84	\$89.45	\$92.13
Contracts Administrator	\$105.45	\$108.61	\$111.87	\$115.23	\$118.68	\$122.24	\$125.91	\$129.69
Cost Estimator	\$94.49	\$97.33	\$100.25	\$103.25	\$106.35	\$109.54	\$112.83	\$116.21
Cost Estimator - Senior	\$124.80	\$128.55	\$132.40	\$136.38	\$140.47	\$144.68	\$149.02	\$153.49
Engineer - Junior	\$73.57	\$75.77	\$78.05	\$80.39	\$82.80	\$85.28	\$87.84	\$90.48
Engineer - Mid-Level	\$99.09	\$102.06	\$105.12	\$108.27	\$111.52	\$114.87	\$118.31	\$121.86
Engineer - Senior	\$127.14	\$130.96	\$134.88	\$138.93	\$143.10	\$147.39	\$151.81	\$156.37
Program Manager	\$177.15	\$182.46	\$187.93	\$193.57	\$199.38	\$205.36	\$211.52	\$217.87
Project Manager	\$142.66	\$146.94	\$151.35	\$155.89	\$160.57	\$165.38	\$170.34	\$175.45
Projects Controls	\$110.11	\$113.42	\$116.82	\$120.33	\$123.93	\$127.65	\$131.48	\$135.43
QA/QC	\$103.80	\$106.92	\$110.12	\$113.43	\$116.83	\$120.33	\$123.94	\$127.66
Risk Assessor	\$119.37	\$122.96	\$126.64	\$130.44	\$134.36	\$138.39	\$142.54	\$146.82
Scientist - Junior	\$58.04	\$59.78	\$61.58	\$63.42	\$65.33	\$67.29	\$69.30	\$71.38
Scientist - Mid-Level	\$80.17	\$82.58	\$85.06	\$87.61	\$90.24	\$92.94	\$95.73	\$98.60
Scientist - Senior	\$121.59	\$125.23	\$128.99	\$132.86	\$136.85	\$140.95	\$145.18	\$149.53
Technician - Mid-Level	\$52.49	\$54.07	\$55.69	\$57.36	\$59.08	\$60.85	\$62.68	\$64.56
Technician - Senior	\$84.27	\$86.80	\$89.41	\$92.09	\$94.85	\$97.70	\$100.63	\$103.65
Toxicologist	\$119.74	\$123.34	\$127.04	\$130.85	\$134.77	\$138.82	\$142.98	\$147.27
G&A	\$3.653							

Table 1
Project Labor and Cost Breakdown by Contract Year and Task
078 Stormwater/Green Infrastructure Project City of Birmingham

Labor																		
Task #	Description	LOE Hours Breakdown									Total Burdened Labor Cost Breakdown							
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Total	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
1	Project Planning and Support	0	0	0	0	0	0	47	0	47	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,758.34	\$ -
2	Expert Technical Assistance	0	0	0	0	0	0	272	0	272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 33,066.41	\$ -
3	Task Order Closeout	0	0	0	0	0	0	5	0	5	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 708.30	\$ -
4	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Not Used	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Total	0	0	0	0	0	0	324	0	324	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,533.05	\$ -

Non-Labor Costs																
		Travel Breakdown				ODC Breakdown							Equipment	Subcontract	Team Subcontractors	
Task #	Description	Air Fare	Ground Trans	Meals/Lodging	Total	Repro	Supplies	Mail/Courier	Telephone	Equip.	Misc.	Total	Pool	Pool	Geosyntec	Techlaw
1	Project Planning and Support	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43.00	\$ 43.00	\$ -	\$ -	\$ -	\$ -
2	Expert Technical Assistance	\$ 1,500.00	\$ 418.00	\$ 612.00	\$ 2,530.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	Task Order Closeout	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total		\$ 1,500.00	\$ 418.00	\$ 612.00	\$ 2,530.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43.00	\$ 43.00	\$ -	\$ -	\$ -	\$ -

Totals						
Task #	Description	Total (Labor)	Subtotal (Non-Labor)	G&A 3.653%	Total (Non-Labor)	Grand Total
1	Project Planning and Support	\$ 5,758.34	\$ 43.00	\$ 1.57	\$ 44.57	\$ 5,802.91
2	Expert Technical Assistance	\$ 33,066.41	\$ 2,530.00	\$ 92.42	\$ 2,622.42	\$ 35,688.83
3	Task Order Closeout	\$ 708.30	\$ -	\$ -	\$ -	\$ 708.30
4	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
5	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
6	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
7	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
8	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
9	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
10	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
11	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
12	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
13	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
14	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
15	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
16	Not Used	\$ -	\$ -	\$ -	\$ -	\$ -
Total		\$ 39,533.05	\$ 2,573.00	\$ 93.99	\$ 2,573.00	\$ 42,200.04

This Page Intentionally Left Blank

Black & Veatch Special Projects Corp. DETAILED COST ESTIMATE											
B&V DCN: 49078-0471-01-C-02179R0											
Site Name: Stormwater/Green Infrastru Task Order: 078				Mod. No.: original, 001, 002				Start Date: 8/27/2015			
Project: 49078		Contract No.: EP-S4-09-02		Mod. Date: 8/27/15, 8/28/15, 9/2/15				End Date: 1/30/2016			
Location: Birmingham, AL						CURRENT EXPENDITURE LIMIT			\$42,200		
Activity Code: 0											
PROJECT SUMMARY											
LABOR CATEGORY	Level of Effort Hours by Contract Year								Total Hours by Labor Cat	Total Cost by Labor Cat	
	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8			
Accountant	0	0	0	0	0	0	8	0	8	\$780.39	
Architect - Junior	0	0	0	0	0	0	0	0	0	\$0.00	
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00	
Architect - Senior	0	0	0	0	0	0	0	0	0	\$0.00	
Clerical	0	0	0	0	0	0	21	0	21	\$1,206.57	
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	\$0.00	
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	\$0.00	
Contracts Administrator	0	0	0	0	0	0	0	0	0	\$0.00	
Cost Estimator	0	0	0	0	0	0	0	0	0	\$0.00	
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	\$0.00	
Engineer - Junior	0	0	0	0	0	0	36	0	36	\$3,162.27	
Engineer - Mid-Level	0	0	0	0	0	0	184	0	184	\$21,769.73	
Engineer - Senior	0	0	0	0	0	0	24	0	24	\$3,643.53	
Program Manager	0	0	0	0	0	0	8	0	8	\$1,692.17	
Project Manager	0	0	0	0	0	0	42	0	42	\$7,154.43	
Projects Controls	0	0	0	0	0	0	0	0	0	\$0.00	
QA/QC	0	0	0	0	0	0	1	0	1	\$123.94	
Risk Assessor	0	0	0	0	0	0	0	0	0	\$0.00	
Scientist - Junior	0	0	0	0	0	0	0	0	0	\$0.00	
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00	
Scientist - Senior	0	0	0	0	0	0	0	0	0	\$0.00	
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00	
Technician - Senior	0	0	0	0	0	0	0	0	0	\$0.00	
Toxicologist	0	0	0	0	0	0	0	0	0	\$0.00	
TOTAL LABOR BY YEAR	0	0	0	0	0	0	324	0	324		
1. TOTAL FULLY BURDENED LABOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,533.05	\$0.00		\$39,533.05	
2. TRAVEL:											
Air Fare	\$1,500.00										
Ground Transportation	\$418.00										
Meals/Lodging	\$612.00										
TOTAL										\$2,530.00	
3. OTHER DIRECT COSTS:											
Reproduction	\$0.00										
Supplies	\$0.00										
Mail/Courier/Shipment	\$0.00										
Telephone	\$0.00										
Equipment	\$0.00										
Miscellaneous	\$43.00										
TOTAL										\$43.00	
4. TOTAL EQUIPMENT POOL (Site Purchase)										\$0.00	
5. TOTAL SUBCONTRACT POOL (FROM ATTACHMENTS)										\$0.00	
6. TEAM SUBCONTRACTORS:											
TECH LAW	\$0.00										
GEOSYNTEC	\$0.00										
TOTAL										\$0.00	
7. G&A ITEMS 2 THRU 6		3.653%									\$93.99
TASK ORDER TOTAL COST ESTIMATE											\$42,200.04
B&V PgM: Gina Montgomery		EPA TOM: Elizabeth Belk			ESTIMATED BY: Nancy Geller			APPROVED BY: Gina Montgomery			
B&V TOM: Nancy Geller		EPA PO: Luis Flores			DATE: 9/15/2015			DATE: 9/18/2015			
All costs are estimated based on best engineering judgment.											

Labor Hours by Year Project: #####

[illegible]

Black & Veatch Special Projects Corp. Site Name: Stormwater/Green Infrastructure Project City of Birmingham																									
Labor Hours by Year Project: #####																									
	TASK 7, Phase Not Used								TASK 8, Phase Not Used								TASK 9, Phase Not Used								
	Not Used								Not Used								Not Used								
Labor Category	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	
Accountant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Architect - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Architect - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Clerical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Contracts Administrator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Estimator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engineer - Junior	0	0	0	0	0	0	Engineer -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engineer - Mid-Level	0	0	0	0	0	0	Engineer -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Engineer - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Program Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Project Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Projects Controls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
QA/QC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Risk Assessor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scientist - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scientist - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Technician - Mid-Level	0	0	0	0	0	0	Technician -	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Technician - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Toxicologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL LABOR BY YEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

	TASK 10, Phase Not Used								TASK 11, Phase Not Used								TASK 12, Phase Not Used							
	Not Used								Not Used								Not Used							
Labor Category	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8
Accountant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Black & Veatch Special Projects CorpSite Name: Stormwater/Green Infrastructure Project City of Birmingham																								
Labor Hours by Year Project: #####																								
	TASK 13, Phase Not Used								TASK 14, Phase Not Used								TASK 15, Phase Not Used							
	Not Used								Not Used								Not Used							
Labor Category	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8
Accountant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	TASK 16, Phase Not Used								TASK Totals							
	Not Used															
Labor Category	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8
Accountant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Architect - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clerical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0
Engineer - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	184	0
Engineer - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
Program Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Project Manager	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42	0
Projects Controls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Risk Assessor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL HOURS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	324	0

Black & Veatch Special Projects Corp.		DETAILED COST ESTIMATE								
B&V DCN: 49078-0471-01-C-02179R0										
Site Name: Stormwater/Green Infrastructure			Task Order: 078			Mod. No.: original, 001, 002			Start Date: 8/27/2015	
Project: 49078			Contract No.: EP-S4-09-02			Mod. Date: 8/27/15, 8/28/15, 9/2/15			End Date: 1/30/2016	
Location: Birmingham, AL						CURRENT EXPENDITURE LIMIT				\$42,200
Activity Code: 0										
TASK NUMBER: 1			PHASE: 871							
TASK NAME: Project Planning and Support										
LABOR CATEGORY	Level of Effort Hours by Contract Year								Total Hours by Labor Cat	Total Cost by Labor Cat
	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8		
Accountant	0	0	0	0	0	0	8	0	8	\$780.39
Architect - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Clerical	0	0	0	0	0	0	11	0	11	\$632.01
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Contracts Administrator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Mid-Level	0	0	0	0	0	0	12	0	12	\$1,419.77
Engineer - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Program Manager	0	0	0	0	0	0	6	0	6	\$1,269.13
Project Manager	0	0	0	0	0	0	9	0	9	\$1,533.09
Projects Controls	0	0	0	0	0	0	0	0	0	\$0.00
QA/QC	0	0	0	0	0	0	1	0	1	\$123.94
Risk Assessor	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Toxicologist	0	0	0	0	0	0	0	0	0	\$0.00
TOTAL LABOR BY YEAR	0	0	0	0	0	0	47	0	47	
1. TOTAL BURDENED LABOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,758.34	\$0.00	\$5,758.34	
2. TRAVEL:										
Air Fare	\$0.00									
Ground Transportation	\$0.00									
Meals/Lodging	\$0.00									
TOTAL	\$0.00									
3. OTHER DIRECT COSTS:										
Reproduction	\$0.00									
Supplies	\$0.00									
Mail/Courier/Shipment	\$0.00									
Telephone	\$0.00									
Equipment	\$0.00									
Miscellaneous	\$43.00									
TOTAL	\$43.00									
4. TOTAL EQUIPMENT POOL (Site Purchase)										\$0.00
5. TOTAL SUBCONTRACT POOL (FROM ATTACHMENTS)										\$0.00
6. TEAM SUBCONTRACTORS:										
GEOSYNTEC	\$0.00									
Techlaw	\$0.00									
TOTAL	\$0.00									
7. G&A ITEMS 2 THRU 6		3.65%								
TOTAL COST ESTIMATE FOR TASK 1										\$5,802.91
B&V PgM: Gina Montgomery			EPA TOM: Elizabeth Belk			Estimated by: Nancy Geller			Approved by: Gina Montgomery	
B&V TOM: Nancy Geller			EPA PO: Luis Flores			Date: 9/15/2015			Date: 9/18/2015	

All costs are estimated based on best engineering judgment.

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infr		Task Number: 1		
Subtask Summary		Project: 49078		Task Name: Project Planning and Support		
Line Item	TOTAL	1	2	3	4	5
WBS Subtask	ALL SUBTASKS	1.1.1 Attend Scoping Meeting	1.1.2 - Develop Work Plan and Cost Estimate	1.1.4 - Conflict of Interest Disclosure	1.3.1 - Monitor costs/Prepare status reports	1.3.2 - Participate in meetings/communicate
Description						
LABOR CATEGORY						
Accountant	8	0	0	0	8	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	11	0	3	2	6	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	12	2	10	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	6	2	1	0	3	0
Project Manager	9	2	4	0	3	0
Projects Controls	0	0	0	0	0	0
QA/QC	1	0	1	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	47	6	19	2	20	0
Previous Budget	0	0	0	0	0	0
Net Change	47	6	19	2	20	0

Line Item	6	7	8	9	10	11
WBS Subtask	1.3.3 Accommodate external audit or review.					
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infr		Task Number: 1		
Subtask Summary		Project: 49078		Task Name: Project Planning and Support		
Line Item	12	13	14	15	16	17
WBS Subtask	1.4.7 Review background documents	1.5.1 Develop site conceptual understanding	1.5.2 Identify likely response scenarios	1.5.3 Prepare Conceptual Exposure Pathway Analysis	1.5.4 Initiate Identification of ARARs	1.5.7 Procure, Manage, Invoice Subcontracts.
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Line Item	18	19	20	21	22	23
WBS Subtask	1.1.6, 1.4.3, 1.4.6, 1.4.8, 1.5.5, and 1.5.6					
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure Park		Pack Number: 1	
Travel Costs		Project: 49078		Task Name: Project Planning and Support	
TASK TRAVEL COST SUMMARY:				AIR FARE	= \$ -
				GROUND TRANSPORTATION	= \$ -
				MEALS/LODGING	= \$ -
				TASK TRAVEL TOTAL	= \$ -
Trip #1 Attend Scoping Meeting at EPA					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	1 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	1 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #1 TOTAL	= \$ -
Trips #2a, b, c Meetings at EPA (3)					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	3 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	6 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #2 TOTAL	= \$ -
Trip #3 Site Visit - 2 Black & Veatch Personnel					
AIR FARE	0 person	x	\$895.00 /TRIP	x	1 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	1 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	1 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #3 TOTAL	= \$ -
Trip #4					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #4 TOTAL	= \$ -
Trip #5					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #5 TOTAL	= \$ -

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure			Pack Number: 1						
Travel Costs		Project: 49078			Task Name: Project Planning and Support						
Trip #6											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND	Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
	Parking	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #6 TOTAL								=	\$	-	
Trip #7											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND	Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
	Parking	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #7 TOTAL								=	\$	-	
Trip #8											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND	Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
	Parking	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #8 TOTAL								=	\$	-	
Trip #9											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND	Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Rental Fuel	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
	Parking	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #9 TOTAL								=	\$	-	
Trip #10											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND	Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Rental Fuel	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
	Parking	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-
	Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #10 TOTAL								=	\$	-	

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure		Task Number: 1	
Other Direct Costs		Project: 49078		Task Name: Project Planning and Support	
TOTAL ODC Summary:				=	\$ 43.00
TOTAL Team Subcontractors:				=	\$ -
TOTAL Subcontractor Pool:				=	\$ -
1. Reproduction					
Rev. 0/1 WP, SAP, HASP - B&W	_____	copies	x 6400 pages	x \$ 0.08 per page	= \$ -
Color DS	_____	copies	x 480 pages	x \$ 0.85 per page	= \$ -
Other Reports B&W	_____	copies	x 25 pages	x \$ 0.08 per page	= \$ -
Other Reports Color	_____	copies	x 10 pages	x \$ 0.85 per page	= \$ -
				Total	= \$ -
2. Supplies					
CDs	_____	CDs	x	\$ 2.50 each	= \$ -
3" D-ring	_____	notebooks	x	\$ 9.00 each	= \$ -
	_____	TBD	x	\$ - each	= \$ -
	_____	TBD	x	\$ - each	= \$ -
				Total	\$ -
3. Mail/Courier/Ship					
Courier	_____	package(s)	x	\$ - per package	= \$ -
General Postage	_____	items/month	x _____ months	x \$ 6.00 per item	= \$ -
FedEX Priority Overnight	Envelope	x	_____ packages	x \$ 4.28 per item	= \$ -
FedEX Priority Overnight	FedEX Pak (2 lb.)	x	_____ packages	x \$ 4.91 per item	= \$ -
FedEX Priority Overnight	5 lb.	x	_____ packages	x \$ 5.72 pe item	= \$ -
FedEX Priority Overnight	10 lb.	x	_____ packages	x \$ 10.92 per item	= \$ -
FedEX Priority Overnight	25 lb.	x	_____ packages	x \$ 25.41 per item	= \$ -
FedEX Priority Overnight	50 lb.	x	_____ packages	x \$ 51.33 per item	= \$ -
FedEX Priority Overnight	75 lb.	x	_____ packages	x \$ 76.92 per item	= \$ -
FedEX Priority Overnight	100 lb.	x	_____ packages	x \$ 92.72 per item	= \$ -
FedEX Priority Overnight	150 lb.	x	_____ packages	x \$142.94 per item	= \$ -
				Total	\$ -
4. Telephone					
	_____	calls/month	x _____ months	x \$ 5.00 per call	= \$ -
	_____	calls/month	x _____ months	x \$ 5.00 per call	= \$ -
				Total	\$ -
5. Equipment					
	_____	TBD	x 0 day	x \$ - per day	= \$ -
	_____	TBD	x 0 day	x \$ - per day	= \$ -
				Total	\$ -
6. Miscellaneous					
Misc expenes	_____	TBD	x TBD	x TBD	= \$ 43.00
	_____	TBD	x TBD	x \$ - TBD	= \$ -
	_____	TBD	x TBD	x \$ - TBD	= \$ -
				Total	\$ 43.00
7. Subcontractors					
Competitive Bid or BOA					
TBD					= \$ -
TBD					= \$ -
TBD					= \$ -
				Sub Pool Total	\$ -
Team					
Geosyntec					= \$ -
TechLaw					= \$ -
				Team Sub Total	= \$ -

Black & Veatch Special Projects Corp. DETAILED COST ESTIMATE										
B&V DCN: 49078-0471-01-C-02179R0										
Site Name: Stormwater/Green Infrastructure				Task Order: 078		Mod. No.: original, 001, 002		Start Date: 8/27/2015		
Project: 49078				Contract No.: EP-S4-09-02		Mod. Date: 8/27/15, 8/28/15, 9/2/15		End Date: 1/30/2016		
Location: Birmingham, AL						CURRENT EXPENDITURE LIMIT			\$42,200	
Activity Code: 0										
TASK NUMBER: 2 PHASE: 872										
TASK NAME: Expert Technical Assistance										
LABOR CATEGORY	Level of Effort Hours by Contract Year								Total Hours by Labor Cat	Total Cost by Labor Cat
	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8		
Accountant	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Clerical	0	0	0	0	0	0	8	0	8	\$459.65
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Contracts Administrator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Junior	0	0	0	0	0	0	36	0	36	\$3,162.27
Engineer - Mid-Level	0	0	0	0	0	0	172	0	172	\$20,349.97
Engineer - Senior	0	0	0	0	0	0	24	0	24	\$3,643.53
Program Manager	0	0	0	0	0	0	0	0	0	\$0.00
Project Manager	0	0	0	0	0	0	32	0	32	\$5,451.00
Projects Controls	0	0	0	0	0	0	0	0	0	\$0.00
QA/QC	0	0	0	0	0	0	0	0	0	\$0.00
Risk Assessor	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Toxicologist	0	0	0	0	0	0	0	0	0	\$0.00
TOTAL LABOR BY YEAR	0	0	0	0	0	0	272	0	272	
1. TOTAL BURDENED LABOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$33,066.41	\$0.00	\$33,066.41	
2. TRAVEL:										
Air Fare	\$1,500.00									
Ground Transportation	\$418.00									
Meals/Lodging	\$612.00									
TOTAL	\$2,530.00									
3. OTHER DIRECT COSTS:										
Reproduction	\$0.00									
Supplies	\$0.00									
Mail/Courier/Shipment	\$0.00									
Telephone	\$0.00									
Equipment	\$0.00									
Miscellaneous	\$0.00									
TOTAL	\$0.00									
4. TOTAL EQUIPMENT POOL (Site Purchase)										\$0.00
5. TOTAL SUBCONTRACT POOL (FROM ATTACHMENTS)										\$0.00
6. TEAM SUBCONTRACTORS:										
GEOSYNTEC	\$0.00									
Techlaw	\$0.00									
TOTAL	\$0.00									
7. G&A ITEMS 2 THRU 6										\$92.42
TOTAL COST ESTIMATE FOR TASK 2										\$35,688.83
B&V PgM: Gina Montgomery			EPA TOM: Elizabeth Belk			Estimated by: Nancy Geller		Approved by: Gina Montgomery		
B&V TOM: Nancy Geller			EPA PO: Luis Flores			Date: 9/15/2015		Date: 9/18/2015		

All costs are estimated based on best engineering judgment.

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infr		Task Number: 2		
Subtask Summary		Project: 49078		Task Name: Expert Technical Assistance		
Line Item	TOTAL	1	2	3	4	5
WBS Subtask	ALL SUBTASKS	2.1 Project Meetings	2.2 Review requirements and implementation approach	2.3 Update City of Birmingham specific long-term rainfall analyses	2.4 Review guidance documentation for implementing runoff	2.6 Documentation
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	8	0	0	0	0	8
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	36	0	0	36	0	0
Engineer - Mid-Level	172	36	60	4	36	36
Engineer - Senior	24	0	8	8	4	4
Program Manager	0	0	0	0	0	0
Project Manager	32	22	2	2	2	4
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	272	58	70	50	42	52
Previous Budget	0	0	0	0	0	0
Net Change	272	58	70	50	42	52

Line Item	6	7	8	9	10	11
WBS Subtask	2.6 Provide public hearing support.	2.7 Publish public notices	2.8 Maintain public information repositories.	2.9 Develop and update site mailing list.	2.10 Support for Responsiveness Summary.	2.11 Prepare presentation materials.
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infr		Task Number: 2		
Subtask Summary		Project: 49078		Task Name: Expert Technical Assistance		
Line Item	12	13	14	15	16	17
WBS Subtask	2.12 Other Community Involvement activities:	2.13 Review Community Involvement deliverables:	2.0 Cost Proposal, Monthly Rptg, Invoicing.			
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Line Item	18	19	20	21	22	23
WBS Subtask						
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure Pack Number: 2	
Travel Costs		Project: 49078	Task Name: Expert Technical Assistance
TASK TRAVEL COST SUMMARY:		AIR FARE	= \$ 1,500.00
		GROUND TRANSPORTATION	= \$ 418.00
		MEALS/LODGING	= \$ 612.00
		TASK TRAVEL TOTAL	= \$ 2,530.00
Trip #1 Twp (2) trips from Atlanta, GA, to Birmingham, AL			
AIR FARE	person	x	/TRIP x trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	2 days x 2 trip(s) = \$ 200.00
Rental Fuel	\$ 0.10 per mile	x	300 miles/trip x 2 trip(s) = \$ 60.00
Parking	\$ 15.00 per day	x	days x trip(s) = \$ -
Mileage	\$0.56 per mile	x	miles/trip x trip(s) = \$ -
LODGING	1 person	x	1 days x \$ 92.00 per day = \$ 92.00
MEALS	1 person	x	3 days x \$ 56.00 per day = \$ 168.00
		TRIP #1 TOTAL	= \$ 520.00
Trip #2 One (2) trip from Philadelphia, PA, to Birmingham, AL			
AIR FARE	1 person	x	\$750.00 /TRIP x 2 trip(s) = \$ 1,500.00
GROUND Rental	\$ 50.00 per day	x	2 days x 1 trip(s) = \$ 100.00
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip x 1 trip(s) = \$ -
Parking	\$ 15.00 per day	x	2 days x 1 trip(s) = \$ 30.00
Mileage	\$0.56 per mile	x	50 miles/trip x 1 trip(s) = \$ 28.00
LODGING	1 person	x	2 days x \$ 92.00 per day = \$ 184.00
MEALS	1 person	x	3 days x \$ 56.00 per day = \$ 168.00
		TRIP #2 TOTAL	= \$ 2,010.00
Trip #3			
AIR FARE	0 person	x	\$750.00 /TRIP x 0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days x 0 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip x 0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days x 0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip x 0 trip(s) = \$ -
LODGING	0 person	x	0 days x \$ 99.00 per day = \$ -
MEALS	0 person	x	0 days x \$ 61.00 per day = \$ -
		TRIP #3 TOTAL	= \$ -
Trip #4			
AIR FARE	0 person	x	\$750.00 /TRIP x 0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days x 0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip x 0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days x 0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip x 0 trip(s) = \$ -
LODGING	0 person	x	0 days x \$ 99.00 per day = \$ -
MEALS	0 person	x	0 days x \$ 61.00 per day = \$ -
		TRIP #4 TOTAL	= \$ -
Trip #5			
AIR FARE	0 person	x	\$750.00 /TRIP x 0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days x 0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip x 0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days x 0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip x 0 trip(s) = \$ -
LODGING	0 person	x	0 days x \$ 99.00 per day = \$ -
MEALS	0 person	x	0 days x \$ 61.00 per day = \$ -
		TRIP #5 TOTAL	= \$ -

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure			Pack Number: 2						
Travel Costs		Project: 49078			Task Name: Expert Technical Assistance						
Trip #6											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #6 TOTAL								=	\$	-	
Trip #7											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #7 TOTAL								=	\$	-	
Trip #8											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #8 TOTAL								=	\$	-	
Trip #9											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #9 TOTAL								=	\$	-	
Trip #10											
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s)	=	\$	-	
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
	\$ 15.00	per day	x	0	days	x	0 trip(s)	=	\$	-	
	\$0.56	per mile	x	0	miles/trip	x	0 trip(s)	=	\$	-	
LODGING	0	person	x	0	days	x	\$ 99.00	per day	=	\$	-
MEALS	0	person	x	0	days	x	\$ 61.00	per day	=	\$	-
TRIP #10 TOTAL								=	\$	-	

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure		Task Number: 2		
Other Direct Costs		Project: 49078		Task Name: Expert Technical Assistance		
TOTAL ODC Summary:					=	\$ -
TOTAL Team Subcontractors:					=	\$ -
TOTAL Subcontractor Pool:					=	\$ -
1. Reproduction						
	_____ copies	x	_____ pages	x	\$ 0.85 per page	= \$ -
	_____ copies	x	_____ pages	x	\$ 0.08 per page	= \$ -
	_____ copies	x	_____ pages	x	\$ 0.08 per page	= \$ -
	_____ copies	x	_____ pages	x	\$ 0.08 per page	= \$ -
					Total	= \$ -
2. Supplies						
	_____ reports	x			\$ 2.50 each	= \$ -
	_____ reports	x			\$ 8.00 each	= \$ -
	_____ sets	x			\$ 10.00 each	= \$ -
	_____ poster	x			\$150.00 each	= \$ -
					Total	= \$ -
3. Mail/Courier/Ship						
Courier	_____ package(s)	x			\$ - per package	= \$ -
General Postage	_____ items/month	x	_____ months	x	\$ 6.00 per item	= \$ -
FedEX Priority Overnight	Envelope	x	_____ packages	x	\$ 4.28 per item	= \$ -
FedEX Priority Overnight	FedEX Pak (2 lb.)	x	_____ packages	x	\$ 4.91 per item	= \$ -
FedEX Priority Overnight	5 lb.	x	_____ packages	x	\$ 5.72 per item	= \$ -
FedEX Priority Overnight	10 lb.	x	_____ packages	x	\$ 10.92 per item	= \$ -
FedEX Priority Overnight	25 lb.	x	_____ packages	x	\$ 25.41 per item	= \$ -
FedEX Priority Overnight	50 lb.	x	_____ packages	x	\$ 51.33 per item	= \$ -
FedEX Priority Overnight	75 lb.	x	_____ packages	x	\$ 76.92 per item	= \$ -
FedEX Priority Overnight	100 lb.	x	_____ packages	x	\$ 92.72 per item	= \$ -
FedEX Priority Overnight	150 lb.	x	_____ packages	x	\$142.94 per item	= \$ -
					Total	= \$ -
4. Telephone						
	_____ calls/month	x	_____ months	x	\$ 5.00 per call	= \$ -
	_____ calls/month	x	_____ months	x	\$ 5.00 per call	= \$ -
					Total	= \$ -
5. Equipment						
	_____ each	x	_____ day	x	\$350.00 per day	= \$ -
	_____ each	x	_____ day	x	\$350.00 per day	= \$ -
					Total	= \$ -
6. Miscellaneous						
	_____ each	x	_____ day	x	\$750.00 each	= \$ -
	_____ each	x	_____ day	x	\$150.00 each	= \$ -
	_____ each	x	_____ day	x	\$450.00 each	= \$ -
					Total	= \$ -
7. Subcontractors						
Competitive Bid or BOA						
TBD					=	\$ -
TBD					=	\$ -
TBD					=	\$ -
					Sub Pool Total	= \$ -
Team						
Geosyntec					=	\$ -
TechLaw					=	\$ -
					Team Sub Total	= \$ -

Black & Veatch Special Projects Corp. DETAILED COST ESTIMATE B&V DCN: 49078-0471-01-C-02179R0 Site Name: Stormwater/Green Infrastructure Task Order: 078 Mod. No.: original, 001, 002 Start Date: 8/27/2015 Project: 49078 Contract No.: EP-S4-09-02 Mod. Date: 8/27/15, 8/28/15, 9/2/15 End Date: 1/30/2016										
Location: Birmingham, AL								CURRENT EXPENDITURE LIMIT		\$42,200
Activity Code: 0										
TASK NUMBER: 3 PHASE: 873										
TASK NAME: Task Order Closeout										
LABOR CATEGORY	Level of Effort Hours by Contract Year								Total Hours by Labor Cat	Total Cost by Labor Cat
	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6	YR 7	YR 8		
Accountant	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Architect - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Clerical	0	0	0	0	0	0	2	0	2	\$114.91
Construction Mgr < 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Construction Mgr > 3 Months	0	0	0	0	0	0	0	0	0	\$0.00
Contracts Administrator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator	0	0	0	0	0	0	0	0	0	\$0.00
Cost Estimator - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Engineer - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Program Manager	0	0	0	0	0	0	2	0	2	\$423.04
Project Manager	0	0	0	0	0	0	1	0	1	\$170.34
Projects Controls	0	0	0	0	0	0	0	0	0	\$0.00
QA/QC	0	0	0	0	0	0	0	0	0	\$0.00
Risk Assessor	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Junior	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Scientist - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Mid-Level	0	0	0	0	0	0	0	0	0	\$0.00
Technician - Senior	0	0	0	0	0	0	0	0	0	\$0.00
Toxicologist	0	0	0	0	0	0	0	0	0	\$0.00
TOTAL LABOR BY YEAR	0	0	0	0	0	0	5	0	5	
1. TOTAL BURDENED LABOR	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$708.30	\$0.00	\$708.30	
2. TRAVEL:										
Air Fare	\$0.00									
Ground Transportation	\$0.00									
Meals/Lodging	\$0.00									
TOTAL	\$0.00									
3. OTHER DIRECT COSTS:										
Reproduction	\$0.00									
Supplies	\$0.00									
Mail/Courier/Shipment	\$0.00									
Telephone	\$0.00									
Equipment	\$0.00									
Miscellaneous	\$0.00									
TOTAL	\$0.00									
4. TOTAL EQUIPMENT POOL (Site Purchase)										\$0.00
5. TOTAL SUBCONTRACT POOL (FROM ATTACHMENTS)										\$0.00
6. TEAM SUBCONTRACTORS:										
GEOSYNTEC	\$0.00									
Techlaw	\$0.00									
TOTAL	\$0.00									
7. G&A ITEMS 2 THRU 6										3.65%
TOTAL COST ESTIMATE FOR TASK										3
B&V PgM: Gina Montgomery										EPA TOM: Elizabeth Belk
B&V TOM: Nancy Geller										EPA PO: Luis Flores
Estimated by: Nancy Geller										Approved by: Gina Montgomery
Date: 9/15/2015										Date: 9/18/2015

All costs are estimated based on best engineering judgment.

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infr		Task Number: 3		
Subtask Summary		Project: 49078		Task Name: Task Order Closeout		
Line Item	TOTAL	1	2	3	4	5
WBS Subtask	ALL SUBTASKS	3.1 - 3.5 Task Order Closeout				
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	2	2	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	2	2	0	0	0	0
Project Manager	1	1	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	5	5	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	5	5	0	0	0	0

Line Item	6	7	8	9	10	11
WBS Subtask						
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.			Site Name: Stormwater/Green Infr		Task Number: 3	
Subtask Summary			Project: 49078		Task Name: Task Order Closeout	
Line Item	12	13	14	15	16	17
WBS Subtask						
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Line Item	18	19	20	21	22	23
WBS Subtask						
Description						
LABOR CATEGORY						
Accountant	0	0	0	0	0	0
Architect - Junior	0	0	0	0	0	0
Architect - Mid-Level	0	0	0	0	0	0
Architect - Senior	0	0	0	0	0	0
Clerical	0	0	0	0	0	0
Construction Mgr < 3 Months	0	0	0	0	0	0
Construction Mgr > 3 Months	0	0	0	0	0	0
Contracts Administrator	0	0	0	0	0	0
Cost Estimator	0	0	0	0	0	0
Cost Estimator - Senior	0	0	0	0	0	0
Engineer - Junior	0	0	0	0	0	0
Engineer - Mid-Level	0	0	0	0	0	0
Engineer - Senior	0	0	0	0	0	0
Program Manager	0	0	0	0	0	0
Project Manager	0	0	0	0	0	0
Projects Controls	0	0	0	0	0	0
QA/QC	0	0	0	0	0	0
Risk Assessor	0	0	0	0	0	0
Scientist - Junior	0	0	0	0	0	0
Scientist - Mid-Level	0	0	0	0	0	0
Scientist - Senior	0	0	0	0	0	0
Technician - Mid-Level	0	0	0	0	0	0
Technician - Senior	0	0	0	0	0	0
Toxicologist	0	0	0	0	0	0
TOTAL LABOR BY YEAR	0	0	0	0	0	0
Previous Budget	0	0	0	0	0	0
Net Change	0	0	0	0	0	0

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure		Pack Number: 3	
Travel Costs		Project: 49078		Task Name: Task Order Closeout	
TASK TRAVEL COST SUMMARY:					
				AIR FARE	= \$ -
				GROUND TRANSPORTATION	= \$ -
				MEALS/LODGING	= \$ -
				TASK TRAVEL TOTAL	= \$ -
Trip #1: RI Field Effort 1 Surface Water/Sediment/Sewer/Surface and Subsurface Soil/Air Sampling					
AIR FARE	0 person	x	\$750.00 /TRIP	x	1 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	2 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	2 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	2 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	2 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #1 TOTAL	= \$ -
Trip #2 RI Field Effort 2 Drilling/Well Installation/Passive Diffusion Bag Pickup					
AIR FARE	0 person	x	\$750.00 /TRIP	x	1 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	2 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	2 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	4 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	4 trip(s) = \$ -
LODGING	0 person	x	11 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	12 days	x	\$ 61.00 per day = \$ -
				TRIP #2 TOTAL	= \$ -
Trip #3 IDW/Surveying Oversight and Transducer Pickup					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #3 TOTAL	= \$ -
Trip #4					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #4 TOTAL	= \$ -
Trip #5					
AIR FARE	0 person	x	\$750.00 /TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00 per day	x	0 days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00 per day	x	0 days	x	0 trip(s) = \$ -
Mileage	\$0.56 per mile	x	0 miles/trip	x	0 trip(s) = \$ -
LODGING	0 person	x	0 days	x	\$ 99.00 per day = \$ -
MEALS	0 person	x	0 days	x	\$ 61.00 per day = \$ -
				TRIP #5 TOTAL	= \$ -

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure				Pack Number: 3	
Travel Costs		Project: 49078		Task Name: Task Order Closeout			
Trip #6							
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00	per day	x	0	days	x	0 trip(s) = \$ -
Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
LODGING	0	person	x	0	days	x	\$ 99.00 per day = \$ -
MEALS	0	person	x	0	days	x	\$ 61.00 per day = \$ -
TRIP #6 TOTAL							= \$ -
Trip #7							
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00	per day	x	0	days	x	0 trip(s) = \$ -
Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
LODGING	0	person	x	0	days	x	\$ 99.00 per day = \$ -
MEALS	0	person	x	0	days	x	\$ 61.00 per day = \$ -
TRIP #7 TOTAL							= \$ -
Trip #8							
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.10	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00	per day	x	0	days	x	0 trip(s) = \$ -
Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
LODGING	0	person	x	0	days	x	\$ 99.00 per day = \$ -
MEALS	0	person	x	0	days	x	\$ 61.00 per day = \$ -
TRIP #8 TOTAL							= \$ -
Trip #9							
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00	per day	x	0	days	x	0 trip(s) = \$ -
Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
LODGING	0	person	x	0	days	x	\$ 99.00 per day = \$ -
MEALS	0	person	x	0	days	x	\$ 61.00 per day = \$ -
TRIP #9 TOTAL							= \$ -
Trip #10							
AIR FARE	0	person	x	\$750.00	/TRIP	x	0 trip(s) = \$ -
GROUND Rental	\$ 50.00	per day	x	0	days	x	0 trip(s) = \$ -
Rental Fuel	\$ 0.20	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
Parking	\$ 15.00	per day	x	0	days	x	0 trip(s) = \$ -
Mileage	\$0.56	per mile	x	0	miles/trip	x	0 trip(s) = \$ -
LODGING	0	person	x	0	days	x	\$ 99.00 per day = \$ -
MEALS	0	person	x	0	days	x	\$ 61.00 per day = \$ -
TRIP #10 TOTAL							= \$ -

Black & Veatch Special Projects Corp.		Site Name: Stormwater/Green Infrastructure		Task Number: 3	
Other Direct Costs		Project: 49078		Task Name: Task Order Closeout	
TOTAL ODC Summary:				=	\$ -
TOTAL Team Subcontractors:				=	\$ -
TOTAL Subcontractor Pool:				=	\$ -
1. Reproduction					
	_____ copies	x _____ pages	x \$ 0.08 per page	=	\$ -
	_____ copies	x _____ pages	x \$ 0.08 per page	=	\$ -
	_____ copies	x _____ pages	x \$ 0.08 per page	=	\$ -
	_____ copies	x _____ pages	x \$ 0.08 per page	=	\$ -
	Total			=	\$ -
2. Supplies					
	_____ reports	x	\$ 0.50 each	=	\$ -
	_____ reports	x	\$ 4.50 each	=	\$ -
	_____ TBD	x	\$ - each	=	\$ -
	_____ TBD	x	\$ - each	=	\$ -
	Total			=	\$ -
3. Mail/Courier/Ship					
Courier	_____ package(s)	x	\$ - per package	=	\$ -
General Postage	_____ items/month	x _____ months	x \$ 6.00 per item	=	\$ -
FedEX Priority Overnight	Envelope	x _____ packages	x \$ 4.28 per item	=	\$ -
FedEX Priority Overnight	FedEX Pak (2 lb.)	x _____ packages	x \$ 4.91 per item	=	\$ -
FedEX Priority Overnight	5 lb.	x _____ packages	x \$ 5.72 per item	=	\$ -
FedEX Priority Overnight	10 lb.	x _____ packages	x \$ 10.92 per item	=	\$ -
FedEX Priority Overnight	25 lb.	x _____ packages	x \$ 25.41 per item	=	\$ -
FedEX Priority Overnight	50 lb.	x _____ packages	x \$ 51.33 per item	=	\$ -
FedEX Priority Overnight	75 lb.	x _____ packages	x \$ 76.92 per item	=	\$ -
FedEX Priority Overnight	100 lb.	x _____ packages	x \$ 92.72 per item	=	\$ -
FedEX Priority Overnight	150 lb.	x _____ packages	x \$142.94 per item	=	\$ -
	Total			=	\$ -
4. Telephone					
	_____ calls/month	x _____ months	x \$ 5.00 per call	=	\$ -
	_____ calls/month	x _____ months	x \$ 5.00 per call	=	\$ -
	Total			=	\$ -
5. Equipment					
	_____ TBD	x _____ day	x \$ - per day	=	\$ -
	_____ TBD	x _____ day	x \$ - per day	=	\$ -
	Total			=	\$ -
6. Miscellaneous					
	_____ TBD	x _____ TBD	x _____ TBD	=	\$ -
	_____ TBD	x _____ TBD	x \$ - TBD	=	\$ -
	_____ TBD	x _____ TBD	x \$ - TBD	=	\$ -
	Total			=	\$ -
7. Subcontractors					
Competitive Bid or BOA					
	TBD			=	\$ -
	TBD			=	\$ -
	TBD			=	\$ -
	TBD			=	\$ -
	Sub Pool Total			=	\$ -
Team					
	Geosyntec			=	\$ -
	TechLaw			=	\$ -
	Team Sub Total			=	\$ -