

DeKalb County Government

Manuel J. Maloof Center 1300 Commerce Drive Decatur, Georgia 30030

Agenda Item

File ID: 2017-0630	Substitute	12/5/2017

Purchasing Type: Change Order (CO)

Public Hearing: YES D NO Department: Purchasing & Contracting

AGENDA ITEM:

Commission District(s): All

CO - Change Order No. 2 to Contract No. 14-902800 Consent Decree Program Management Services: for use by the Department of Watershed Management (DWM). Awarded to CH2M Hill Engineers, Inc. Amount Not To Exceed: \$17,032,445.00.

Information Contact: Talisa Clark, CPPO

Phone Number: (404) 687-2797

PURPOSE:

Awarded by the BOC on January 28, 2014 for an amount not to exceed \$14,865,616.00. This contract consists of providing program management services to facilitate the Consent Decree Program through sewer assessment, hydraulic modeling, permitting, engineering, and document control for Consent Decree projects. This request is to revise the scope of work, extend the Contract Time to June 30, 2020, extend the Contract's Term until December 31, 2021 and add additional funding in the total amount of \$17,032,445.00, bringing the total Contract Price to \$33,376,230.00.

RECOMMENDATION:

Recommend approval of the attached Change Order #2 with CH2M Hill Engineering, Inc., 1000 Abernathy Road, Suite 1600, Atlanta, GA 30328 and authorize the CEO to execute the attached Change Order as approved by the County Attorney or her designee.

ADDITIONAL INFORMATION:

Notes:

1.	LSBE Participation:	42%
2.	Contract Effective Date:	April 7, 2014
3.	Contract Expiration Date:	December 31, 2019
4.	Amount Spent To Date:	\$16,157,816.95
5.	Funding:	2011 Bonds and Renewal & Extension (DWM)
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STATE OF GEORGIA COUNTY OF DEKALB

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CHANGE ORDER NO. 2 TO CONTRACT NO. 14-902800

THIS AMENDMENT, effective as of September 1, 2017, is made by and between <u>DeKalb</u> <u>County</u>, a political subdivision of the State of Georgia (hereinafter referred to as the "County"), and <u>CH2M Hill Engineers, Inc.</u>, a corporation organized and existing under the laws of the State of Delaware, with offices in Fulton County, Georgia (hereinafter referred to as the "Contractor").

WITNESSETH:

WHEREAS, County and Contractor have previously entered into a certain Contract dated April 7, 2014, (DeKalb County Contract No. 14-902800), as amended by that First Change Order approved by the DeKalb Governing Authority on August 8, 2017 (as amended, the "Agreement" or "Contract") entitled Consent Decree Program Management Services (hereinafter referred to as the "Project"); and,

WHEREAS, the County and Contractor desire to amend said contract to revise the scope of work to reflect modifications to the Project since the execution of the Agreement, extend the contract time to June 30, 2020, extend the contract's term until December 31, 2021 and add additional funding in an amount not to exceed Seventeen Million Thirty-Two Thousand Four Hundred and Forty-Five Dollars and Zero Cents (\$17,032,445.00); and,

WHEREAS, the DeKalb County Governing Authority adopted and approved the terms of this Change Order No. 2 on _____; and,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged and in consideration of the mutual promises and undertakings contained herein, the parties hereto do hereby agree and consent to the following:

I. THE CONTRACT IS HEREBY AMENDED AS FOLLOWS:

A. ARTICLE I. CONTRACT TIME, DELETE ARTICLE I. CONTRACT TIME in its entirety, **INSERT A NEW ARTICLE I. CONTRACT TIME** as follows:

The Contractor shall commence the work under this Agreement on April 7, 2014

("execution date"). Contractor shall fully complete the Work by June 30, 2020. The Contract Time may be extended only by Change Order approved and executed by the DeKalb County Governing Authority or the Chief Executive Officer, if exempted from Governing Authority adoption and approval in accordance with the express terms of this Contract.

B. ARTICLE II. CONTRACT TERM, DELETE ARTICLE II. CONTRACT TERM in its entirety, INSERT A NEW ARTICLE II. CONTRACT TERM as follows:

The Contract shall commence immediately upon execution. As required by O.C.G.A. § 36-60-13, this contract shall (i) terminate without further obligation on the part of the County on each December 31st, as required by O.C.G.A. 36-60-13, as amended, unless terminated earlier in accordance with the termination provisions of this Contract; (ii) automatically renew on each January 1st, unless terminated in accordance with the termination provisions of this Contract; and (iii) terminate absolutely, with no further renewals on December 31, 2021, unless extended by Change Order adopted and approved by the DeKalb County Governing Authority and the Contractor in accordance with the terms of this Contract.

C. ARTICLE III. PAYMENT, DELETE ARTICLE III. PAYMENT in its entirety, INSERT A NEW ARTICLE III. PAYMENT as follows:

As full payment for the faithful performance of this Contract, the County shall pay the Contractor the Contract Price, which is an amount not to exceed Thirty-Three Million Three Hundred Seventy-Six Thousand Two Hundred Thirty Dollars and Zero Cents (\$33,376,230.00), unless changed by written Change Order in accordance with the terms of this Contract. The term "Change Order" includes the term "amendment" and shall mean a written order authorizing a change in the Work, and an adjustment in Contract Price to Contractor or the Contract Term, as adopted and approved by the Contractor and the DeKalb County Governing Authority, or the Chief Executive Officer, if exempted from Governing Authority adoption and approval in accordance with the express terms of this Contract. The Chief Executive Officer or his/her designee shall have the authority to approve and execute a Change Order lowering the Contract Price or increasing the Contract Price so long as the amount of each Change Order increasing the Contract Price does not exceed One Hundred Thousand Dollars (\$100,000.00). Any other increase of the Contract Price shall be by Change Order adopted and approved by the DeKalb County Governing Authority and the Contractor in accordance with the terms of this Contract. Amounts paid to the Contractor for work performed from April 2014 through April 2017 shall comply with and not exceed Attachment

A to the Contract, the Contractor's Cost Proposal, consisting of five (5) pages attached thereto and incorporated therein. Amounts paid to the Contractor for work performed from May 2017 through August 31, 2017 shall comply with and not exceed Attachment A to Change Order No. 1, consisting of two (2) pages attached thereto and incorporated therein. Amounts paid to the Contractor for work performed from September 1, 2017 through June 30, 2020 shall comply with and not exceed Attachment A-1 to this Change Order No. 2, the Contractor's CH2M Cost Proposal for September 2017 through June 2020, consisting of three (3) pages attached hereto and incorporated herein.

Payment is to be made no later than thirty (30) days after submittal of undisputed invoice.

Invoices must be submitted as follows:

A. Original invoice(s) must be submitted to:

DeKalb County, Georgia Accounting Services 1300 Commerce Drive, 3rd Floor Decatur, Georgia 30030

B. A copy of the invoice(s) must be submitted to:

Watershed Management Attention: Project Manager for Consent Decree Program Management 1580 Roadhaven Drive Stone Mountain, Georgia 30083

 C. A copy of the invoice(s) must be submitted with completed Prime Contractor LSBE (Local Small Business Enterprise) Utilization Report and LSBE Sub-Contractor Report to: Contract Compliance Division DeKalb County Purchasing & Contracting 1300 Commerce Drive, 2nd Floor

Decatur, Georgia 30030

The Contract Price of an amount not to exceed Thirty-Three Million Three Hundred Seventy-Six Thousand Two Hundred Thirty Dollars and Zero Cents (\$33,376,230.00) includes full and final payment in the total amount of \$1,913,967.00 for the following out of scope tasks performed during the time period of April 2014 through and including April 2017:

Management of Inspection Staff for PASARP assessment work (2/8/2016 – 10/28/2016) - \$175,775.00

- Review and Analysis of Service Requests Related to SSO reporting (3/24/2016 1/16/2017) \$140,531.00
- Provide Technical Services and Program Management of Design Build Gravity Collection System Projects (3/25/2016 – 4/28/2017) - \$118,653
- Cityworks Implementation Phase I (4/1/2016 12/31/2016) \$701,445.00
- Rehab Packaging of Design Build Contracts (9/1/2016 4/28/2017) \$222,777.00
- Provide Inspection Services to Supplement DWM Inspection Staff (9/19/2016 4/28/2017) - \$185,808.00
- Provide Support to DWM regarding Private I/I Program (10/1/2016 4/28/2017)
 \$37,508.00
- Additional Modeling Services to Support DWM (10/7/2016 4/28/2016) -\$255,447.00
- Additional Cityworks Services (1/1/2017 4/28/2017) \$76,023.00

Payment in the total amount of \$1,913,967.00 for these out of scope tasks has been made in full prior to execution of this Change Order No. 2.

The Contract Price of an amount not to exceed Thirty-Three Million Three Hundred Seventy-Six Thousand Two Hundred Thirty Dollars and Zero Cents (\$33,376,230.00) is full and final payment for all Consent Decree Program Management Services through and including June 30, 2020. The Contract Price includes, as described above, full and final payment for out of scope tasks performed during the time period of April 2014 through and including April 2017.

No additional compensation shall be made for any other work alleged to be out of scope performed prior to September 1, 2017, the effective date of this Change Order No. 2.

D. ARTICLE IV. SCOPE OF WORK, DELETE ARTICLE IV. SCOPE OF

WORK in its entirety, INSERT A NEW ARTICLE IV. SCOPE OF WORK as follows:

The Contractor agrees to provide all consent decree program management services in accordance with the County's Request for Proposals (RFP) No. 13-500270 for Consent Decree Program Management Services, attached to the Contract as Appendix I and incorporated herein by reference, and the Contractor's response thereto, attached to the Contract as Appendix II and incorporated herein by reference. The Contractor's services shall include all things, personnel, and materials necessary to accomplish specific projects authorized by the County. For the purposes of this statement of work, the term "DWM" shall mean county employees designated by the chief executive officer, the executive assistant or the deputy chief operating officer for infrastructure to handle, supervise, or review the tasks set forth in this statement of work.

1. The Contractor shall perform the following Tasks:

- a. Task 1 Program Development and Management
 - i. Provide full-time management of the CD program, including all personnel included in the staffing plan not dedicated to Task activities.
 - ii. Develop specific and measurable goals for the development and execution of the program to ensure successful accomplishments of the CD requirements and milestones. (completed before execution of CO #1)
 - iii. Develop and implement a 90-day mobilization plan that identifies staffing, computer systems and other support services, early task deliverables, and other activities necessary to assure that any early CD milestones are achieved. (completed before execution of CO #1)
 - iv. Develop and implement a system that tracks and reports budget, schedule and costs against progress for the program management contract tasks identified herein. (completed before execution of CO #1)
 - v. Immediately begin developing a knowledge transfer plan that identifies the methods (on-the-job transfer of knowledge, informal and formal training) for transferring knowledge of the program task activities from Proposer staff to DWM staff. (completed before execution of CO #1)
 - vi. Implement the knowledge transfer plan developed pursuant to Task 1, subpart v.
 - vii. Schedule, plan and conduct and/or attend all Consent Decree Program Management Team (CDPMT) project status and other meetings
 - viii. Meet with appropriate DWM staff for monthly progress updates on CD program efforts
 - ix. Attend BOC meetings and other public meetings, regarding and related to the Consent Decree (CD), when and as requested by the DWM
 - x. Coordinate LSBE partner and other subcontractor activities, including periodic principal briefings

- xi. Provide other support, review, and oversight as required, of other issues that arise and are requested by the DWM throughout the duration of the program, such as rehabilitation program management services, including additional program management support for numerous Design/Build (D/B) construction contracts (Phase 1: 60% design and guaranteed maximum price development only) for recommended sewer rehabilitation
- b. Task 2 CD Budget, Schedule and Cost
 - i. Develop and implement, using commercial software, a system to comprehensively track and report budget, schedule and costs at the CD task and project level, rolled up to the program level.
 - ii. Track and report all interim and final CD milestone dates, as identified within the CD document, CMOM plans, or other reports and information as may be developed in the future.
 - iii. Reports shall be developed on a monthly basis, with transfer of data as necessary to the future CIP Program Management system. System features shall include but not limited to:
 - 1) Integrated master schedule;
 - 2) Baseline schedule and budget;
 - 3) Schedule and cost updates;
 - 4) Identification of schedule and cost variances;
 - 5) Forecasted schedule and cost thru completion;
 - 6) Evaluation and mitigation of schedule and cost variances;
 - 7) Work Breakdown Structures (WBS) and Critical Path Method (CPM);
 - 8) Detailed reporting features, with rollup to program level; and
 - 9) "Dashboard" type reporting capabilities to facilitate management reviews.
 - iv. The County does not require a particular software system. The County desires a cost-effective approach, considering the cost of software, licenses, and staffing to effectively manage the system. Cost-effectiveness will be inherently identified within the Proposer's cost proposal.
 - v. Update program Master Schedule on a regular, monthly basis, by reviewing work accomplished, deadlines and milestones with Task Leads, and produce final program Master Schedule update for distribution to DWM and CDPMT. Provide immediate written notice of deadlines, milestones, etc. which impact compliance with the Consent Decree.
 - vi. Review all backup documents for CDPMT invoice packages on a regular, monthly basis, provide a summary report and respond to any DWM questions or inquiries.
 - vii. With DWM approval, issue new Subcontractor task orders when required; administer and maintain records and timesheets for Subcontractors, and track Subcontractor spending, payment and outstanding contract balances.
- c. Task 3 CD Reporting
 - i. For Annual and Semi-Annual Reports required by the CD, develop draft reports by working with CD Leads (both CDPMT and DWM), for submittal to DWM. Reports will then be finalized by the County's Executive Assistant/Chief

Operating Officer, or as authorized by the Chief Executive Officer in writing, and submitted to EPA accordingly.

- ii. Utilize program Master Schedule, in an abbreviated form showing activities from the last six-month period and also for the next six-month period, to serve as the basis of the Semi-Annual Report, thus reducing the volume of text developed for previous Semi-Annual Reports before the Master Schedule could be utilized for this purpose.
- iii. Utilize the business intelligence (BI) software adopted for use by the DWM for development of the Annual Report Trends Analysis of SSOs.
- iv. Provide support for DWM review and work plan developments of EPAidentified complaints related to sanitary sewer overflows (SSOs).
- v. Assist in the development of the SSO trend analysis report for EPA.
- vi. Provide technical support for EPA presentations and for DWM responses to requests for information from EPA.
- d. Task 4 CMOM Programs Implementation of Projects

Directly manage the implementation of the following CMOM programs, associated with implementing projects within the collection system:

- i. <u>Sewer Mapping Program</u> –The Contractor shall manage the sewer mapping contracts from the beginning of the CD Program Management contract to completion of mapping contracts. (completed before execution of CO #1)
 - Provide GIS update assistance as requested by DWM
- ii. System Wide Flow and Rainfall Monitoring Program The Contractor shall be fully responsible for managing the rainfall and flow monitoring program as necessary to assure adequate data is collected and analyzed by the County; Contractor will conduct monthly reviews of the flow monitoring data and review the monthly flow meter reports prepared by the County; Contractor will subsequently process the flow and rainfall data to develop input for the computer-based dynamic hydraulic model of the sewer system (see Section 4.iii System Wide Hydraulic Modeling Program below); to support assessment of available capacity within the sewer system; to prioritize sanitary sewers for inspection, repair, rehabilitation or replacement; and to assure full compliance with the Consent Decree. The Contractor is responsible for making changes to the flow monitoring program based on hydraulic modeling needs and System-Wide Flow and Rainfall Monitoring Program. Any contracts associated with flow monitoring will be separately procured by the County, but managed by the Contractor.
 - Provide flow monitoring field services to supplement DWM flow monitoring staff including: flow meter site investigation, flow meter installation, maintenance of flow meters after installation and removal of flow meters.

- iii. <u>System Wide Hydraulic Modeling Program</u> The Contractor shall be directly responsible for completing the system wide hydraulic model, using the Infoworks software (required by Consent Decree) in full compliance with the requirements and schedule contained within the Consent Decree submittal approved by EPA/EPD. (Preliminary hydraulic model was submitted before execution of CO#2, Contractor shall continue to provide services associated with subparts included in Task 4iii). The overarching requirement for development of a system wide hydraulic model is compliance with the Consent Decree and the relevant program documents submitted thereunder. The following is a list of required steps as known at this time to reach such compliance, but is not intended to be exhaustive. The Contractor shall be responsible for working with the County to identify, and communicating to the County, additional steps necessary to ensure all CD and program requirements are satisfied.
 - Meet regularly with DWM modeler for the purpose of communicating updates by each party to the model and/or the information related to the model, and to discuss and resolve any other issues and questions
 - Complete static peak flow hydraulic model in accordance with Exhibit 1, attached hereto.
 - Update the hydraulic model on a quarterly basis in 2018 based on available GIS updates from the County once the model is fully developed
 - Conduct additional model runs under different scenarios as requested and required by DWM for particular areas of interest and as required for coordination of ongoing CIP projects
 - Conduct additional model runs for the gravity collection system debottlenecking projects based on changes to the GIS
 - Capacity upsizing of gravity sewer collection system pipelines within OSARP and PASARP as required by the CD and relevant program documents.
 - Plan and develop a computer-based dynamic hydraulic model, based on updated flow monitoring data and GIS updates. Hydraulic models shall be developed through capacity assessment for each sewershed or basin, as appropriate. The County will make a determination as to when dynamic hydraulic modeling will begin.
- iv. PASARP Assessment Projects
 - Provide project management, implementation and contract administration duties related to field activity, submittals, financials and schedules of PASARP assessment contracts, with areas defined as PASARP within the CD
 - Also develop SSO Escalation and EPA-identified project limits and associated work assignments

- Track and update progress of these projects on a regular basis, and make work assignments as appropriate for additional projects that arise, through coordination with existing PASARP and/or OSARP contracts as possible
- For the PASARP Capacity Restoration projects; provide project management, implementation and contract administration related to this field activity, submittals, financials and schedules
- v. OSARP Assessment Projects
 - Provide project management, implementation and contract administration duties related to field activity, submittals, financials and schedules of OSARP assessment contracts for the following contracts:
 - o OSARP CCTV and Manhole Condition Assessment
 - Capacity Restoration of OSARP Areas

vii. Assisting with Infiltration and Inflow Program

- Provide DWM with assessment databases that provide the smoke defect data and pictures
- Provide training on the mobile map application that is used to review the smoke assessment data
- Assist DWM with resolving incorrect addresses for identified smoke defects
- Provide technical support for the infiltration and inflow program as requested by DWM

viii. <u>Rehabilitation Packaging</u>

• Develop recommended rehabilitation projects resulting from collected PASARP and OSARP data and information, and assemble rehabilitation packages for implementation, including SSO Escalation and EPA-identified projects as appropriate, for implementation through D/B contracts

ix. Design/Build RFP Development

- Develop RFPs for provision of design/build services for:
 - Gravity sewer collection system improvements
- x. Continuing Sewer Assessment and Rehab Program -
 - The Contractor shall be fully responsible for developing and implementing a program to conduct a comprehensive and thorough evaluation of the sanitary sewer system. The program should specify various equipment and techniques to detect sewer pipe defects, blockages and capacity problems. This program must be in full compliance with the requirements of the Consent Decree to address priority areas. The Contractor will perform work associated with assessing the results of the cleaning and inspection activities. The contractor will develop the scope for all sewer cleaning, manhole inspection, smoke tests, dye tests, closed circuit TV (CCTV), flow monitoring, rain monitoring, sewer rehabilitation, manhole rehabilitation

and other contracts as may be required. Such contracts will be separately procured by the County, but managed by the Contractor.

- xi. Supplemental Environmental Project -
 - DWM is in the process of completing the scope for this project with the assistance from a contractor and is preparing to issue an ITB to implement the work. The Contractor is not responsible for managing this contract. (Completed before execution of C.O. #2).
- xii. Capacity Request Program -
 - Provide Technical and support services regarding development and implementation of the Capacity Request Program
- e. Task 5 CMOM Programs Implementation of O&M Activities
 - i. DWM, has and will continue to be responsible for implementing the CMOM programs associated with the operation and maintenance of the collection system, and other associated non-capital improvements. The Contractor shall provide three (3) full time equivalents (FTE) engineering staff to assist DWM with continued development and implementation of the following CMOM programs:
 - Contingency and Emergency Response Plan;
 - Fats, Oil and Grease Management;
 - Maintenance Management System;
 - Collection and Transmission Systems Training Plan;
 - Infrastructure Acquisition Program; and
 - Financial Analysis Program.

(Completed before execution of CO #1. Contractor may assist the Department of Watershed Management with continued development and implementation. Any work associated performed pursuant to Task 5i shall be billed under Task 12.)

- ii. Maintenance Management System (MMS) Program
 - Provide services as requested and required by DWM and includes the following activities:
 - Database management of the assessment data and media collected from the PASARP and OSARP programs
 - Assist with the transfer of the assessment data and media files collected during the PASARP and OSARP contracts to DWM's new Computerized Maintenance Management System (CMMS) referred to as CityWorks.
 - Develop reporting dashboards for the assessment data using Business Intelligent software
- iii. Cityworks CMMS Implementation

- Phase 1 was completed in December 2016 and met or exceeded Consent Decree deadlines. This phase included the implementation of Cityworks for wastewater collection, water distribution, large water meters, and customer support. At the County's request, Phase 1 included hosting the Cityworks application in the cloud. As presently configured, Cityworks uses a copy of the County's GIS data rather than a live connection because at the time of implementation the County lacked the required infrastructure to support the required number of users.
- Phase 2 of CMMS implementation will deepen DWM's internal support of Cityworks and extend the use of Cityworks to other areas including backflow preventer inspections, FOG inspections, water meters (excluding integration with water billing software), capacity request tracking, flow monitoring, and construction inspection. Phase 2 also covers the transition of responsibility for the cloud hosting solution to the County, linking the County's live GIS to Cityworks (instead of a copy), additional training for County staff, additional Consent Decree KPI reports, and ongoing support. Transition to the County shall be completed ninety (90) days prior to the expiration date of the contract.
- f. Task 6 Document Management

Contractor shall procure and implement a commercial off-the-shelf (COTS) electronic document management system (EDMS) to capture all documents and records required for the CD program in a central repository for retrieval and viewing, and shall meet the specific requirements of the Consent Decree. The system shall capture all documents and records at the program, task and project level. DWM has an installed system (SharePoint) which is available to the Contractor, but not required to be used. Maintain Microsoft Access database for incoming and outgoing documents.

g. Task 7 - Risk Management

The Contractor has developed a formal risk management plan to identify, assess, monitor, track, respond to and mitigate risks at the CD program, task and project level. The Contractor shall directly implement the plan at the CD program and task level and manage the plan at the project level. The risk management program will continue through the life of the CD program.

h. Task 8 – Quality Control

The Contractor shall develop a formal quality control (management) plan to assure quality deliverables at the CD program, task and project level and shall directly implement the plan at the CD program and task level and manage the plan at the project level.

- i. Task 9 Real Estate Acquisition and Permitting
 - i. Project design consultants are responsible for preparing all necessary information for real estate and easement acquisitions, with the actual acquisition activities being performed by the County. The flow monitoring,

cleaning, inspection and rehabilitation of the sewer system for the CD program will require services in excess of the County's capacity to perform, and in many cases there will not be a design consultant associated with the activity. The Contractor will provide real estate acquisition services for the CD program including an evaluation of the current process for acquisitions and provide recommendations for process improvements.

- ii. Project design consultants are responsible for securing all necessary environmental and other associated permits for a given project. The Contractor shall develop a formal plan to:
 - Identify all necessary environmental and other associated permits for the CD program;
 - Develop procedures for securing all necessary environmental and other associated permits for the CD program; and
 - Manage and execute the plan, except when design consultants are available to implement at the project level.
- iii. Any on-going support after execution of CO #1 shall be billed under Task 11.
- j. Task 10 Community Outreach and Public Relations

The Contractor shall develop and implement a community outreach and public relations program to educate internal and external stakeholders on the requirements, goals, schedule, costs, progress, and merits and benefits of the CD program. Contractor shall respond to internal and external stakeholder and media inquiries and requests for public information. All said responses shall be coordinated with and approved by DWM. (completed before execution of CO #1)

- k. Task 11--- Consent Decree Projects Technical Services
 - i. Technical Services for CD-Related Design Build Contracts

DWM intends to provide Construction Management services through other contracts for consent decree (CD)-related D/B Construction projects. CH2M will provide technical services as requested and program management of the D/B contracts required by DWM to meet CD goals which include the following:

- Implement PASARP prioritized rehabilitation measures by June 2020
- Track and inventory ongoing and completed PASARP rehabilitation projects
- Integrate select capacity assurance upsizing projects with PASARP rehabilitation projects to maximize SSO reduction potential

As CH2M developed the technical requirements for the D/B bid packages, CH2M is uniquely qualified to provide the following technical services based upon this specific technical knowledge—that may include but not limited to the items listed below. CH2M will provide technical services during Phase 1 (60% Design and Guaranteed Maximum Price Development) of the

- D/B contracts only. DWM will provide management of the D/B contracts during Phase 2 (Final design and Construction) of the D/B contracts through other contracts.
- ii. Technical Development of Needed Services
 - Provide technical information for RFP document preparation
 - Provide technical information in the pre-proposal meetings for the Design Build RFPs
 - Prepare responses to technical questions on requests for information regarding the RFP
 - Assist in review of proposals from design-build firms and partnerships
- iii. Design Support
 - Support of design review and review meetings
 - Assistance with technical design Issues
 - Progress meetings
 - Review of progressive construction estimates
 - Review pay applications
- xiii. Construction Phase Support
 - Assist with technical details for responses to Requests for Information (RFI)
- 1. TASK 12 Additional Services
 - i. This task is intended to provide services for work not anticipated at this time, but requested and required by DWM for needs related to CD compliance throughout the term of this contract. This could include but is not limited to services in the following areas:
 - Emergency Response Services Related to CERP
 - Develop and regularly update one-page work plans for SSO Escalation and EPA-identified projects resulting from assessments previously described, through resolution.
 - SSO Escalation Projects
 - Attend monthly DWM SSO meetings and provide support for development of rehabilitation project definition and implementation.
 - PASARP Fieldwork Inspection
 - Provide inspection of PASARP fieldwork activities in support of CDPMT needs.
 - Other Professional Services
 - Other professional services related to CD compliance and reporting not previously covered.

From the date of execution of Change Order No. 2 forward, the standard of care applicable to Contractor's services will be the degree of skill and diligence normally employed by professional contractors or consultants performing the same or similar Services at the time said services are performed. Contractor will re-perform any services not meeting this standard without additional compensation.

Contractor's services shall include all things, personnel, and materials necessary to accomplish specific projects authorized by the County.

II. <u>NO ADDITIONAL MODIFICATION</u>. All other terms and conditions of the Contract remain unchanged and in full force and effect. The terms and conditions contained in this Change Order No. 2 shall govern over any inconsistent terms and conditions contained in the Agreement.

IN WITNESS WHEREOF, the parties hereto have set their hands and caused their seals to be affixed hereupon in four (4) counterparts, each to be considered as an original by their authorized representatives.

[SIGNATURES ON FOLLOWING PAGE]

Change Order No. 2 to Contract No. 14-902800

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CH2M	HILL	ENGINEERS,	INC.
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DEKALB COUNTY, GEORGIA

By:(SEAL)	by Dir.(SEAL)
Signature	MICHAEL L. THURMOND
Name (Typed or Printed)	Chief Executive Officer
Title	Date
Date	
ATTEST:	ATTEST:
Signature	BARBARA SANDERS-NORWOOD, CCC
Name (Typed or Printed)	Clerk of the Chief Executive Officer
	And Board of Commissioners of
Title	DeKalb County, Georgia
Date	Date
NOTARY:	
Subscribed and Sworn before me on this the	
day of, 20	
NOTARY PUBLIC	
My Commission Expires:	

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APPROVED AS TO SUBSTANCE:

APPROVED AS TO FORM:

Assist. County Attorney Signature

Department Director

Assist. County Attorney Name (Typed or Printed)

CERTIFICATE OF CORPORATE RESOLUTION

I, _____, certify the following:

business under the laws of the State of _____;

That said corporation has, through lawful resolution of the Board of Directors of the corporation, duly authorized and directed _______, in his official capacity as _______ of the corporation, to enter into and execute the following described agreement with DeKalb County, a political subdivision of the State of Georgia:

<u>Change Order No. 2 to Contract # 14-902800 Consent Decree Program Management</u> Services

That the foregoing Resolution of the Board of Directors has not been rescinded, modified, amended, or otherwise changed in any way since the adoption thereof, and is in full force and effect on the date hereof.

IN WITNESS WHEREOF, I have set my hand and corporate seal;

This the _____ day of _____, 20___.

_____(CORPORATE SEAL) (Secretary)

This ______day of ______20____.

COST PROPOSAL

11/01/17

Task 1 -- Program Development and Management

Task 2 (D Budget Schedule and Cost				Subtotals by Yr	Senior Engineer II	Reflamitation Program Manager				Stati Classification - Job Title Of Involce	Chaff Classification - Jok Title	
		Total Costs (Task 1)	Other Direct Costs	3.0	1.0	1.0	1.0	,		רו בי י		
		(Task 1)	t Costs	6024	8002	8002	8007			Labor	Sept 201	
		-	T		155	215	215	Nate (S)	Billable	Hourty	Sept 2017 - Aug 2018	
		1,277,480 Total Costs (Task 1)	102,800	1,174,680	311,240	431,720	431,720	(\$)	Lost	Labor		
		Total Cost	102,800 Other Direct Costs	3.0	1.0	1.0	1.0			FTE.		
		s (Task 1)	ct Costs	6000	2000	2000	2000		Hours	•••	Sept 201	
					158	219	219	Kate (5)	Billable	Hourly	Sept 2018 - Aug 2019	
		1,222,200	28,800	1,193,400	316,200	438,600	438,600	(5)	Cost	Labor		
		Total Costs (Task 1	28,800 Other Direct Costs	3.0	1.0	1.0	1.0			FTE*		
	SUB-TOTAL	(Task 1)	t Costs	4796	1588	1600	1608		Hours	Labor	Sept 201	
					161	224	224	Rate (\$)	Billable	Hourly	Sept 2019 - June 2020	
	3.497.249	997,569	23,900	973,669	256,084	357,898	359,687	(\$)	Cost	Labor	0	

Task 2 CD Rundoot ŝ

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	SUB-TOTAL			Γ				ſ			-
	Task 2)	Total Costs (Task 2)	1 000,755		s (Task 2)	351,400 Total Costs (Task 2)	351,400		(Task 2)	Total Costs (Task 2)	
	Costs	Other Direct Costs			ct Costs	Other Direct Costs		1	ct Costs	Other Direct Costs	
	1335	0.8	357,000		2000	1.0	351,400 1.0		2008	1.0	
182	1335	0.8	357,000	179	2000	1.0	351,400 1.0	175	2008	1.0	Controls Manager
Rate (\$)	Ra		(\$)	Rate (\$)			(\$)	Rate (\$)			
Billable	Hours Bill		Cost	Billable	Hours		Cost	Billable	Hours		
Hourly	Labor Hc	FTE*	Labor	Hourly	Labor	FTE*	Labor	Hourly	Labor Hourly	+3LJ	
0707 aun	207 aunt - Ernz ndac			ochi rozo yag cozo	000000			0			

Task 3 -- CD Reporting

			Subtotals by Yr	Staff Consultant III	Project Technologist II	Senior Technologist	Principal Technologist					
	Total Costs (Task 3)	Other Direct Costs	0.5	0.0	0.0	0.0	0.5			*E*		
	s (Task 3)	ct Costs	1008	- -	40	16	912		Hours	Labor	Sept 201	
		1		110	140	175	190	Rate (\$)	Hours Billable	Hourly	Sept 2017 - Aug 2018	
	186,080		186,080	4,400	5,600	2,800	173,280	(\$)	Cost	Labor	8	
	186,080 Total Costs (Task 3)	Other Direct Costs	0.2	0.0	0.0	0.0	0.2			FTE*		
	s (Task 3)	ect Costs	488	40	40	16	392		Hours	Labor	Sept 20	
				112	143	179	194	Rate (\$)	Billable	Hourly	Sept 2018 - Aug 2019	
	89,026		89,026	4,488	5,712	2,856	75,970	(\$)	Cost	Labor		
	89,026 Total Costs (Task 3)	Other Direct Costs	0.3	0,0	0.0	0.0	0.2			FTE*		
SUB-TOTAL	5 (Task 3)	ct Costs	488	40	40	16	392		Hours	Labor	Sept 201	
AL.				114	146	182	198	Rate (\$)	Billable	Hourly	Sept 2019 - June 2020	
365,912	90,806		90,806	4,578	5,826	2,913	77,489	(\$)	Cost	Labor	20	

Page 1

Attachment A-1 CH2M Proposal CONSENT DECREE PROGRAM MANAGEMENT SERVICES

ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor FTE* Labor Hourly Labor		Sept 2019 - June 2020	Sept 2019	_		Sept 2018 - Aug 2019	Sept 201		~	Sept 2017 - Aug 2018	Sept 20		
Sept 2018 - Aug 2019 Sept 2019 - June 2020 touriv Labor FF* Labor										es	Activiti	of O&N	k 5 CIVIUM Programs - Implementation
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	6,672,667		SUB-TOTAL										
Sept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor FTE* Labor Hourly Hourly Billable Cost Hourly Billable Cost Hourly Hourly Billable Cost Hourly Hourly Billable Cost Hourly Billable Cost Hourly Billable Cost Hourly Billable Hourly Billable Rate (S) PTE* Labor Hourly Billable Rate (S) Port Part Rate (S) Part Part Rate (S) Part Part Rate (S) Part	705,558		5 (Task 4)	Total Costs	2,173,569		s (Task 4)	Total Cost	3,793,540	r	s (Task 4)	Total Cost	
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	705,558		5200	3.3	2,173,569		16634	8.3	3,793,540		30468	15.2	Subtotals by Yr
		66	0	0.0	•	97	0	0.0	120,080	26	1264	0.6	Field Statt
	11,652	73	160	0.1	42,840	71	600	0.3	96,600	70	1380	0.7	Statt Consultant I
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	3,163	. 99	32	0.0	9,302	76	96	0.0	18,240	95	192	0.1	Staff Consultant II
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	63,256	66	640	0.4	234,110	97	2416	1.2	486,020		5116	2.6	Project Engineer I
Programs - Implementation of Projects Sept 2017 - Aug 2018 Sept 2017 - Aug 2018 Sept 2017 - Aug 2019 Sept 2019 - June 2020 Sept 2017 - Aug 2018 Sept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 Sept 2017 - Aug 2018 Sept 2017 - Aug 2019 Sept 2019 - June 2020 Implementation of Projects Sept 2019 - June 2020 Sept 2017 - Aug 2018 Sept 2019 - June 2020 Implementation of Projects Sept	9,156	114	08	0.1	39,046	112	348	0.2	96,800		880	0,4	Project Engineer II
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	301,716	130	2320	1.5	832,830	128	6532	3.3	1,237,000		9686	4.9	Project Engineer III
Sept 2018 - Aug 2019 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Houriy Labor FTE* Labor Houriy Labor FTE* Labor Houriy Labor Billable Cost Houriy Labor FTE* Labor Houriy Labor FTE* Labor Houriy Labor Billable Cost Houris Billable <th< td=""><td>48,275</td><td>151</td><td>320</td><td>0.Z</td><td>178,663</td><td>148</td><td>1208</td><td>0,6</td><td>291,160</td><td></td><td>2008</td><td>1.0</td><td>Senior Engineer I</td></th<>	48,275	151	320	0.Z	178,663	148	1208	0,6	291,160		2008	1.0	Senior Engineer I
ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor Hourly Labor FTE* Labor Hourly	116,109	161	720	0.5	279,205	158	1766	0.9	419,740	155	2708	1.4	Senior Engineer II
ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor Hourly Labor Hourly Labor FTE* Labor Hourly	20,808	130	160	0.1	153,000	128	1200	0,6	239,000	125	1912	1.0	Project Technologist I
ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor Hourly Labor Hourly Labor FTE* Labor Hourly Labor Got Got Got Got Got Got Got Hourly Labor	28,465	146	192	0.1	113,444	143	764	0.4	318,560	140	2128	1.1	Project lechnologist iii
ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor FTE* Labor Hourly Labor FTE* Labor Hourly Labor Billable Cost Rate (\$) (\$) Rate (\$) (\$) (\$) Rate (\$) (\$) (\$) Rate (\$) (\$) (\$) (\$) Rate (\$) (\$)	34,95	182	192	0.1	117,096	179	656	0.3	218,400	175	1248	0.6	Senior Technologist
ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor FTE* Labor Hourly Labor Hourly Labor Hourly Labor Billable Cost Hours Billable Cost Rate (\$) (\$) Rate (\$) (\$) (\$) Rate (\$) (\$) (\$) 820 95 77,900 0.2 300 97 29,070 0.1 80 99	•60,09	198	304	0.2	144,962	194	748	0.4	174,040		916	0.5	Principal Technologist
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ept 2017 - Aug 2018 Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor Hourly Billable Cost Hours Billable	(\$)	Rate (\$)			(\$)	Rate (\$)			(\$)	Rate (\$)			
ept 2017 - Aug 2018 FTE* Sept 2018 - Aug 2019 Sept 2019 - June 2020 abor Hourly Labor FTE* Labor Hourly Labor FTE* Labor Hourly	Cost	Billable	Hours		Cost	Billable	Hours		Cost	Billable	Hours		
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					1)čts	1 of Proje	K 4 CMOM Programs - Implementation

175 140	54,880	0.0	08 25	143	3,712 11,424		0.0	0.0	0.0 182 0.0 146
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	49 000	ç	22		170		C 11 3	C 11 3	
190	11,400	0.0	16		194			3,101	3,101
Rate (\$)	(\$)			Rate	≘ (\$)				
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	CONS	ENT DECRI	EE PROGRAN	MANA	GEMENT S	ERVICES					•
									1		
CTC*	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	01.07 BDM -			sept zu	18 - Aug 2019	-		Sept 2019	3 - June 2020	
FIE*		Hourly	Cost	FTE*	Labor	Hourly	Cost	FTE*	Labor	Hourly	Labor
		Rate (\$)	(\$)			Rate (S)	(3)		Hours	Bate (<)	(cost
0.7	1328	56	126,160	0.5	1000	76	006,96	0,5	824	66 1 (±) 21211	81.443
0.2	384	70	26,880	0.2	384	71	27,418	0,2	320	73	23,305
6.0	1712		153,040	0.7	1384		124,318	0.7	1144		104,747
Other Direc	t Costs		1	Other Dire	ct Costs		_	Other Direc	:t Costs		
Total Costs	(Task 6)		153,040	Fotal Costs	s (Task 6)	[]	124,318	Fotal Costs	(Task 6)	- 	104,747
									SUB-TOTA		382,105
	Sent 2017	- Aug 2018			Sent 30	0100 - Aire 2010			Cast 1010	2000	
FTE*	Labor	Hourty	Labor	FTE	Labor		abor	Ţ	Jahor J	House 2020	-
		Billabte	Cost		Hours	Billable	Cost	ŗ	Hours	Billable	Cost
	_	{ate (\$)	(\$)			Rate (\$)	(\$)			Rate (\$)	(\$)
0.9	1868	95	177,460	1.4	2700	76	261,630	1.5	2320	66	229,304
0.4	968	175	156,800	0.4	800	179	142,800	0,4	600	182	109,242
0.6	1232	140	172,480	0.7	1480	143	211,344	0.8	1280	146	186,440
0.2	480	155	74,400	0.2	480	158	75,888	0.3	400	161	64,505
1,4	2712	145	393,240	2.0	4000	148	591,600	2.0	3136	151	473,091
3.6	7188		974,380	4.7	9460		1,283,262	4.8	7736		1,062,581
Other Direct	t Costs			Other Dire	ct Costs	1		Other Direc	t Costs		
Total Costs	(Task 11)	[974,380	otal Costs	; (Task 11)		1,283,262	Fotal Costs	(Task 11)		1,062,581
									SUB-TOTA		3,320,223
	Sept 2017	- Aug 2018			Sept 20:	8 - Aug 2019			Sept 2019	- June 2020	
FTE*	Labor	Hourly	Labor	FTE*	Labor	Hourly	Labor	FTE*	Labor	Hourly	Labor
	Hours	Billable	Cost		Hours	Billable	Cast		Hours	Billable	Cost
		Rate (\$)	(\$)			Rate (\$)	(\$)			Rate (\$)	(\$)
1.0	2008	155	311,240	0.9	1760	158	278,256	0.5	800	161	129,010
2,0	4016	95	381,520	0.0		97	•	0.0		66	
3.0	6024		692,760	0.9	1760		278,256	0.5	800		129,010
Other Direct	t Costs	1		Other Dire	ct Costs			Other Direc	t Costs		
Total Costs ((Task 12)		692,760 1	otal Costs	; (Task 12)	(— 1	278,256	Fotal Costs	(Task 12)		129,010
			7.934.960						SUB-TOTA		1,100,026
		• مە	5,701,727								
		• K•	3,395,758								
	Task 6 Document Management FTE* Document Controls Consultant 0.7 Admin Assistant/Accounting Specialist 0.2 Subtotals by Yr Other Direc Task 11 Consent Decree Technical Services Total Coss Toject Technologist II 0.3 Senior Technologist II 0.4 Senior Engineer II 1.4 Subtotals by Yr Other Direc Total Coss FTE* Senior Technologist II 0.3 Senior Engineer II 1.4 Subtotals by Yr Other Direc Total Costs Other Direc Total Costs Total Costs Task 12 Additional Services FTE* Senior Engineer II 1.4 Subtotals by Yr Other Direc Total Costs f Total Costs Task 12 Additional Services FTE* Other Direc Other Direc Total Costs f 1.0 Senior Engineer II 1.0 Senior Engineer II 1.0 Senior Engineer II 1.0 Senior Engineer II 1.0 Senio	FTE* Se FTE* La 0.2 0.2 0.2 0.2 0.4 0.6 0.2 0.2 0.4 0.6 0.2 1.4 1.4 1.4 1.0 3.6 1.0 3.6 1.0 4.0 1.0 1.0 1.0 3.0 1.0 4.0 1.0 1.0 1.0 1.0 1.0 4.0 1.0 1.0 1.0 1.0 1.0 4.0 1.0 1.0 1.0 1.0	FTE* Se FTE* La 0.7 0.2 0.2 0.2 0.4 0.6 0.2 0.2 FTE* La FTE* La 1.4 1.4 2.0 3.6 3.6 1.4 1.0 3.6 1.0 3.0 1.0 4.0 1.0 5.0 1.0 5.0 1.0 4.0 1.0 5.0 1.0 5.0 1.0 4.0 1.0 5.0 1.0 5.0 1.0 5.0 1.0 5.0 1.0 7.0 1.0 7.0	FTE* Se FTE* La 0.2 0.2 0.3 0.9 0.4 0.6 0.2 0.2 0.4 0.6 0.2 1.4 1.4 1.4 1.0 3.6 2.0 4 3.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 5 1.0 7 1.0 4 1.0 5 1.0 5 1.0 5 1.0 5 1.0 7	FTE* Se FTE* La 0.2 0.2 0.3 0.9 0.4 0.6 0.2 0.2 0.4 0.6 0.2 1.4 1.4 1.4 1.0 3.6 2.0 4 3.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 4 1.0 4 1.0 5 1.0 5 1.0 7 1.0 4 1.0 5 1.0 5 1.0 5 1.0 5 1.0 7	CONSENT DECREE PROGRAM MANAGER FTE* Labor Hourly Labor FTE* Labor Hourly Labor FTE* Labor Hourly Labor FTE* Labor FTE* Labor Hourly Labor FTE* Labor Costs (Ta Cost (Ta	CONSENT DECREE PROGRAM MANAGEMENT SERVIC FTE* Labor FTE* Labor Sept 2017 Sept 2018 Sept 2018 Sept 2018 Sept 2018 Sept 2018 Sept 2018 Rate (S) Labor FTE* Labor Hours Bilable 0.2 384 70 26,880 0.2 384 0.7 1328 95 1200 Rate (S) 0.7 1324 000 0.7 1334 000 0.2 384 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1394 000 0.7 1490 0.2 390 0.7 1490 0.2 1490 0.2 480 0.7 1480 0.7 1480 0.7 <	CONSENT DECREE PROGRAM MANAGEMENT SERVICES FIE* Labor J24,318 Cost Sept 2017 Aug 2018 Sept 2017 Aug 2019 J24,318 Cost J24,318 Cost J132,400 0.2 480 1.2 J132,302 J132,302 J132,302 J132,302 J132,302 J132,302 J132,302 J132,302	CONSENT DECREE PROGRAM MANAGEMENT SERVICES FIE* Labor Hours Billable Cost (S) Sept 2017 - Aug 2018 0.2 1328 95 155,160 0.2 1384 79 26,880 0.7 1384 79 9,90 0.2 1328 95 155,040 0.7 1384 71 27,318 0.9 1712 133,040 0.7 1384 71 27,4318 0.1 133,040 0.7 1384 71 27,4318 0.1 Labor Hourly Balabel Cost Hours Halabel Cost 0.1 Labor Hourly Balabel Cost Hours Billabel Cost 0.4 124,318 017-7,480 172,430 172,4318 124,318 0.4 2010 172,430 174,600 1.4 200 179 26,630 0.4 2010 174,600 1.2 480 179 26,1630 1.4	CONSENT DECREE PROGRAM MANAGEMENT SERVICES FTE* Labor Hours Billable Cost FTE* Labor FTE* Labor<	CONSENT DECREE PROGRAM MANAGEMENT SERVICES FIE* Labor FIE* <thlabor< th=""> FIE* Labor <t< td=""></t<></thlabor<>

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EXHIBIT 1 Scope of Services to Prepare a Fully-Developed Peak Flow Model

The following minimum technical and documentation requirements should be implemented to achieve a fully developed peak flow model. It is assumed that the Contractor will address technical issues within their control to develop the model as described herein. It is assumed that the GIS data and sewer mapping information provided by the County is accurate and does not require significant rework or delays because of inaccurate data or missing data. This list does not address the County's internal process that is a necessary component of having a fully developed model.

- 1. Incorporate significant GIS data and updates into the model and:
 - a. Explain in the model documentation what criteria were applied to determine what is significant and list the model updates.
 - b. Include the results of GIS field requests generated by DWM modelers that are properly documented and are provided in a timely manner.
 - c. Of the total list of field verification requests from 2015-present, identify what field verification requests are still outstanding.
- 2. Incorporate into the model updated lift station parameters, including those lift stations that have been upgraded or eliminated.
- 3. Develop an interim hydraulic model of Intrenchment Creek using existing data provided by the County and the City of Atlanta by December 15, 2017. In 2018, complete a hydraulic model of Intrenchment Creek similar in standards and practices to the other sewershed or basin models by incorporating the results of a future proposed flow study.
- 4. Model Calibration.
 - a. Include in the model documentation:
 - i. A detailed explanation of the model calibration performed for the peak flow model (wet weather events);
 - ii. The rationale for the peak flow calibration approach selected; and
 - iii. The extent to which the peak flow calibration meets the requirements of the Consent Decree and the Hydraulic Model Program document.
 - b. Respond to requests for information from the County regarding methods used for model calibration.

- 5. Sensitivity Analysis.
 - a. Include in the model documentation
 - i. A detailed explanation of the sensitivity analysis performed for the peak flow model;
 - ii. The rationale for the approach to the sensitivity analysis; and
 - iii. The extent to which the sensitivity analysis meets the requirements of the Consent Decree and the Hydraulic Model Program document.
 - b. Respond to requests for information from the County regarding methods used for sensitivity analysis.
- 6. Verification.
 - a. Conduct a model approach verification analysis using at least one storm event that is different from the storm event used to build the model.
 - b. Perform the verification analysis for at least for the Snapfinger basin.
 - c. Include in the model documentation
 - i. A detailed discussion of the model verification done;
 - ii. The rationale for the verification approach; and
 - iii. The extent to which the verification meets the requirements of the Consent Decree and the Hydraulic Model Program document.
 - d. Respond to requests for information from the County regarding methods used for verification.
- 7. Describe and document in the model report how the Cobb Fowler dynamic model was used as a comparison with the static model in that sewershed and provide the results of that comparison.
- 8. Include in the model documentation the distinction between the planning model and the model used for connections purposes and why this model is now capable for use in supporting connections.
- 9. Include in the model documentation the appropriateness of the maximum month average daily flow (MMADF) input parameters.
- 10. Identify and develop any procedures needed for the County to adequately execute and maintain the model. These procedures should include any limitations of the model and how it should be used in the context of capacity connections analyses.
- 11. Review the County's interim protocols and provide any recommendations for how these policies can be improved to fully incorporate the model to support capacity analyses.
- 12. Address additional specific comments the County will provide on the draft model documents.

Red-lined version of Scope of Work Tasks

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- 1. The Contractor shall perform the following Tasks:
 - a. Task 1 Program Development and Management
 - i. Provide full-time management of the CD program, including all personnel included in the staffing plan not dedicated to Task activities.
 - ii. Develop specific and measurable goals for the development and execution of the program to ensure successful accomplishments of the CD requirements and milestones. (completed before execution of CO #1)
 - Develop and implement a 90-day mobilization plan that identifies staffing, computer systems and other support services, early task deliverables, and other activities necessary to assure that any early CD milestones are achieved. (completed before execution of CO #1)
 - iv. Develop and implement a system that tracks and reports budget, schedule and costs against progress for the program management contract tasks identified herein. (completed before execution of CO #1)
 - v. Within the first year, developImmediately begin developing a knowledge transfer plan that identifies- the methods (on-the-job transfer of knowledge, informal and formal training) for transferring knowledge of the program task activities from Proposer staff to DWM staff. (completed before execution of CO #1)
 - vi. Implement the knowledge transfer plan developed pursuant to Task 1, subpart v.
 - vii. Schedule, plan and conduct and/or attend all Consent Decree Program Management Team (CDPMT) project status and other meetings
 - viii. Meet with appropriate DWM staff for monthly progress updates on CD program efforts
 - ix. Attend BOC meetings and other public meetings, regarding and related to the Consent Decree (CD), when and as requested by the DWM
 - x. Coordinate LSBE partner and other subcontractor activities, including periodic principal briefings
 - xi. Provide other support, review, and oversight as required, of other issues that arise and are requested by the DWM throughout the duration of the program, such as rehabilitation program management services, including additional program management support for numerous Design/Build (D/B) construction contracts (Phase 1: 60% design and guaranteed maximum price development only) for recommended sewer rehabilitation
 - b.

e.b. Task 2 – CD Budget, Schedule and Cost

- i. Develop and implement, using commercial software, a system to comprehensively track and report budget, schedule and costs at the CD task and project level, rolled up to the program level.
- ii. Track and report all interim and final CD milestone dates, as identified

within the CD document, CMOM plans, or other reports and information as may be developed in the future.

- iii. Reports shall be developed on a monthly basis, with transfer of data as necessary to the future CIP Program Management system. System features shall include but not limited to:
 - 1) Integrated master schedule;
 - 2) Baseline schedule and budget;
 - 3) Schedule and cost updates;
 - 4) Identification of schedule and cost variances;
 - 5) Forecasted schedule and cost thru completion;
 - 6) Evaluation and mitigation of schedule and cost variances;
 - 7) Work Breakdown Structures (WBS) and Critical Path Method (CPM);
 - 8) Detailed reporting features, with rollup to program level; and
 - 9) "Dashboard" type reporting capabilities to facilitate management reviews.
- **v.iv.** The County does not require a particular software system. The County desires -a cost-effective approach, considering the cost of software, licenses, and- staffing to effectively manage the system. Cost-effectiveness will be inherently identified within the Proposer's cost proposal.
- v. Update program Master Schedule on a regular, monthly basis, by reviewing work accomplished, deadlines and milestones with Task Leads, and produce final program Master Schedule update for distribution to DWM and CDPMT. Provide immediate written notice of deadlines, milestones, etc. which impact compliance with the Consent Decree.
- vi. Review all backup documents for CDPMT invoice packages on a regular, monthly basis, provide a summary report and respond to any DWM questions or inquiries.
- vii. With DWM approval, issue new Subcontractor task orders when required; administer and maintain records and timesheets for Subcontractors, and track Subcontractor spending, payment and outstanding contract balances.

d.c. Task 3 – CD Reporting

Develop and submit formal reports to the regulatory agencies in full compliance with Section X of the Consent Decree (see Attachment A to RFP).

- i. For Annual and Semi-Annual Reports required by the CD, develop draft reports by working with CD Leads (both CDPMT and DWM), for submittal to DWM. Reports will then be finalized by the County's Executive Assistant/Chief Operating Officer, or as authorized by the Chief Executive Officer in writing, and submitted to EPA accordingly.
- ii. Utilize program Master Schedule, in an abbreviated form showing activities from the last six-month period and also for the next six-month period, to serve as the basis of the Semi-Annual Report, thus reducing the volume of

text developed for previous Semi-Annual Reports before the Master Schedule could be utilized for this purpose.

- iii. Utilize the business intelligence (BI) software adopted for use by the DWM for development of the Annual Report Trends Analysis of SSOs.
- iv. Provide support for DWM review and work plan developments of EPAidentified complaints related to sanitary sewer overflows (SSOs).
- v. Assist in the development of the SSO trend analysis report for EPA.
- vi. Provide technical support for EPA presentations and for DWM responses to requests for information from EPA.

e.d. Task 4- - CMOM Programs - Implementation of Projects

Directly manage the implementation of the following CMOM programs, associated with implementing projects within the collection system:

- i. <u>Sewer Mapping Program</u> The system has a total of 32-sewered basins, with 20 completely mapped, and Notice to Proceeds were issued to three firms on February 25, 2013 to complete the mapping of remaining 12 sewered basins within 12 months. The Contractor shall manage the <u>sewer</u> mapping contracts from the beginning of the CD Program Management contract to completion of Mapping contracts. (completed before execution of CO #1)
 - Provide GIS update assistance as requested by DWM
- <u>System Wide Flow and Rainfall Monitoring Program</u> The Contractor shall be fully responsible for managing the rainfall and flow monitoring program as necessary to assure adequate data is collected and analyzed by the County; <u>Contractor will conduct monthly reviews of the flow monitoring data and review the monthly flow meter reports prepared by the County; Contractor will subsequently process the flow and rainfall data to
 </u>
- i. develop theinput for the computer-based dynamic hydraulic model of the sewer system (see Section 4.iii System Wide Hydraulic Modeling Program below); to assess support assessment of available capacity availability within the sewer system; to prioritize sanitary- sewers for inspection, repair, rehabilitation or replacement; and to assure full compliance with the Consent Decree. The Contractor is responsible for making changes to the flow monitoring program based on hydraulic modeling needs- and System-Wide Flow and Rainfall Monitoring Program. Any contracts associated with flow monitoring will be separately procured by the County, but managed by the Contractor.

• Provide flow monitoring field services to supplement DWM flow monitoring staff including: flow meter site investigation, flow meter installation, maintenance of flow meters after installation and removal of flow meters.

- ii. System Wide Hydraulic Modeling Program -3 of the 32 sewered basins basins have been modeled, using the Infoworks dynamic hydraulic model. The Contractor shall be directly responsible for completing the system wide hydraulic model, using the Infoworks software (required by Consent Decree) in full compliance with the requirements and schedule contained within the Consent Decree submittal approved by EPA/EPD. (Preliminary hydraulic model was submitted before execution of CO#2, Contractor shall continue to provide services associated with subparts included in Task 4iii). The overarching requirement for development of a system wide hydraulic model is compliance with the Consent Decree and the relevant program documents submitted thereunder. The following is a list of required steps as known at this time to reach such compliance, but is not intended to be exhaustive. The Contractor shall be responsible for working with the County to identify, and communicating to the County, additional steps necessary to ensure all CD and program requirements are satisfied.
 - Meet regularly with DWM modeler for the purpose of communicating updates by each party to the model and/or the information related to the model, and to discuss and resolve any other issues and questions
 - Complete static peak flow hydraulic model in accordance with Exhibit <u>1. attached hereto.</u>
 - Update the hydraulic model on a quarterly basis in 2018 based on available GIS updates from the County once the model is fully developed
 - Conduct additional model runs under different scenarios as requested and required by DWM for particular areas of interest and as required for coordination of ongoing CIP projects
 - Conduct additional model runs for the gravity collection system debottlenecking projects based on changes to the GIS
 - Capacity upsizing of gravity sewer collection system pipelines within OSARP and PASARP as required by the CD and relevant program documents.
 - Plan and develop a computer-based dynamic hydraulic model, based on updated flow monitoring data and GIS updates. Hydraulic models shall be developed through capacity assessment for each sewershed or basin, as appropriate. The County will make a determination as to when dynamic hydraulic modeling will begin.
- i. PASARP Assessment Projects
 - Provide project management, implementation and contract administration duties related to field activity, submittals, financials and

schedules of PASARP assessment contracts, with areas defined as PASARP within the CD

- Also develop SSO Escalation and EPA-identified project limits and associated work assignments
- Track and update progress of these projects on a regular basis, and make work assignments as appropriate for additional projects that arise, through coordination with existing PASARP and/or OSARP contracts as possible
- For the PASARP Capacity Restoration projects; provide project management, implementation and contract administration related to this field activity, submittals, financials and schedules
- ii. OSARP Assessment Projects
 - Provide project management, implementation and contract administration duties related to field activity, submittals, financials and schedules of OSARP assessment contracts for the following contracts:
 - o OSARP CCTV and Manhole Condition Assessment
 - o Capacity Restoration of OSARP Areas
- vii. Assisting with Infiltration and Inflow Program
 - Provide DWM with assessment databases that provide the smoke defect data and pictures
 - Provide training on the mobile map application that is used to review the smoke assessment data
 - Assist DWM with resolving incorrect addresses for identified smoke defects
 - Provide technical support for the infiltration and inflow program as requested by DWM
- viii. Rehabilitation Packaging
 - Develop recommended rehabilitation projects resulting from collected PASARP and OSARP data and information, and assemble rehabilitation packages for implementation, including SSO Escalation and EPAidentified projects as appropriate, for implementation through D/B contracts
- ix. Design/Build RFP Development
 - Develop RFPs for provision of design/build services for:
 - o Gravity sewer collection system improvements
- x. Continuing Sewer Assessment and Rehab Program
 - iii. The— Contractor shall be fully responsible for developing and implementing a program to conduct a comprehensive and thorough

evaluation of the sanitary sewer system. The program should specify various equipment and techniques to detect sewer pipe defects, blockages and capacity problems. This program must be in full compliance with the requirements of the Consent Decree to address priority areas. The Contractor will perform work associated with assessing the results of the cleaning and inspection activities. The contractor will develop the scope for all sewer cleaning, manhole inspection, smoke tests, dye tests, closed circuit TV (CCTV), flow monitoring, rain monitoring, sewer rehabilitation, manhole rehabilitation and other contracts as may be required. Such contractor. Approximately \$300 million of undefined projects associated with this work is included within the CIP.

xi. Supplemental Environmental Project -

iv. DWM is in the process of completing the scope for this project with the assistance from a- contractor and is preparing to issue an ITB to implement the work. The Contractor is not responsible for managing this contract. (Completed before execution of C.O. #2).

xii. Capacity Request Program -

• Provide Technical and support services regarding development and implementation of the Capacity Request Program

f.e. Task 5 – CMOM Programs – Implementation of O&M Activities

i. DWM, through various upper level managers, has and will continue to be responsible for implementing the CMOM programs associated with the operation and maintenance of the collection system, and other associated non-capital improvements. The Contractor shall provide three (3-) full time equivalents (FTE) engineering staff to assist DWM with continued development and implementation of the following CMOM programs:

i. Contingency and Emergency Response Plan;

ii. Fats, Oil and Grease Management;

iii. Maintenance Management System;

iv. Collection and Transmission Systems Training Plan;

w. Infrastructure Acquisition Program; and

vi.eFinancial Analysis Program.

(Completed before execution of CO #1. Contractor may assist the Department of Watershed Management with continued development and implementation. Any work associated performed pursuant to Task 5i shall be billed under Task 12.)

i. Maintenance Management System (MMS) Program

- Provide services as requested and required by DWM and includes the following activities:
 - o Database management of the assessment data and media collected from the PASARP and OSARP programs
 - <u>Assist with the transfer of the assessment data and media files</u> collected during the PASARP and OSARP contracts to DWM's new Computerized Maintenance Management System (CMMS) referred to as CityWorks.
 - <u>o</u> Develop reporting dashboards for the assessment data using Business Intelligent software
- ii. Cityworks CMMS Implementation
 - Phase 1 was completed in December 2016 and met or exceeded Consent Decree deadlines. This phase included the implementation of Cityworks for wastewater collection, water distribution, large water meters, and customer support. At the County's request, Phase 1 included hosting the Cityworks application in the cloud. As presently configured, Cityworks uses a copy of the County's GIS data rather than a live connection because at the time of implementation the County lacked the required infrastructure to support the required number of users.
 - Phase 2 of CMMS implementation will deepen DWM's internal support of Cityworks and extend the use of Cityworks to other areas including backflow preventer inspections, FOG inspections, water meters (excluding integration with water billing software), capacity request tracking, flow monitoring, and construction inspection. Phase 2 also covers the transition of responsibility for the cloud hosting solution to the County, linking the County's live GIS to Cityworks (instead of a copy), additional training for County staff, additional Consent Decree KPI reports, and ongoing support. Transition to the County shall be completed ninety (90) days prior to the expiration date of the contract.

g.f. Task 6 — Document Management

Contractor shall procure and implement a commercial off-the-shelf (COTS) electronic document management system (EDMS) to capture all documents and records required for the CD program in a central repository for retrieval and viewing, and shall meet the specific requirements of the Consent Decree. The system shall capture all documents and records at the program, task and project level. DWM has an installed system (SharepointSharePoint) which is available to the Contractor, but not required to be used. Maintain Microsoft Access database for incoming and outgoing documents.

i.g. Task 7 - Risk Management

The Contractor shall develop has developed a formal risk management plan to

identify, assess, monitor, track, respond to and mitigate risks at the CD program, task and project level. The Contractor shall directly implement the plan at the CD program and task level and manage the plan at the project level. It is anticipated that the The risk management program will continue through the life of the <u>CD</u> program.

j-<u>h.</u> Task 8 – Quality Control

The Contractor shall develop a formal quality control (management) plan to assure quality deliverables at the CD program, task and project level and shall directly implement the plan at the CD program and task level and manage the plan at the project level.

k.i. Task 9 – Real Estate Acquisition and Permitting

- i. Project design consultants are responsible for preparing all necessary information for real estate and easement acquisitions, with the actual acquisition activities being performed by the County. The flow monitoring, cleaning, inspection and rehabilitation of the sewer system for the CD program will require services in excess of the County's capacity to perform, and in many cases there will not be a design consultant associated with the activity. The Contractor will provide real estate acquisition services for the CD program including an evaluation of the current process for acquisitions and provide recommendations for process improvements.
- ii.i. Project design consultants are responsible for securing all necessary environmental and other associated permits for a given project. The Contractor shall develop a formal plan to:
 - 1)• Identify all necessary environmental and other associated permits for the CD program;
 - **2)** Develop procedures for securing all necessary environmental and other associated permits for the CD program; and
 - 3) Manage and execute the plan, except when design consultants are available to implement at the project level.

i. Any on-going support after execution of CO #1 shall be billed under Task 11.

<u>Li.</u> Task 10 – Community Outreach and Public Relations

The Contractor shall develop and implement a community outreach and public relations program to educate internal and external stakeholders on the requirements, goals, schedule, costs, progress, and merits and benefits of the CD program. Contractor shall respond to internal and external stakeholder and media inquiries and requests for public information. All said responses shall be coordinated with and approved by DWM. (completed before execution of CO)

i. Technical Services for CD-Related Design Build Contracts

DWM intends to provide Construction Management services through other contracts for consent decree (CD)-related D/B Construction projects. CH2M will provide technical services as requested and program management of the D/B contracts required by DWM to meet CD goals which include the following:

- Implement PASARP prioritized rehabilitation measures by June 2020
- Track and inventory ongoing and completed PASARP rehabilitation projects
- Integrate select capacity assurance upsizing projects with PASARP rehabilitation projects to maximize SSO reduction potential

As CH2M developed the technical requirements for the D/B bid packages, CH2M is uniquely qualified to provide the following technical services based upon this specific technical knowledge—that may include but not limited to the items listed below. CH2M will provide technical services during Phase 1 (60% Design and Guaranteed Maximum Price Development) of the D/B contracts only. DWM will provide management of the D/B contracts during Phase 2 (Final design and Construction) of the D/B contracts through other contracts.

- ii. Technical Development of Needed Services
 - Provide technical information for RFP document preparation
 - Provide technical information in the pre-proposal meetings for the Design Build RFPs
 - Prepare responses to technical questions on requests for information regarding the RFP
 - Assist in review of proposals from design-build firms and partnerships

iii. Design Support

- Support of design review and review meetings
- Assistance with technical design Issues
- Progress meetings

Review of progressive construction estimates

• Review pay applications

xiii. Construction Phase Support

• Assist with technical details for responses to Requests for Information (RFI)

1. TASK 12 — Additional Services

- i. This task is intended to provide services for work not anticipated at this time, but requested and required by DWM for needs related to CD compliance throughout the term of this contract. This could include but is not limited to services in the following areas:
 - Emergency Response Services Related to CERP
 - <u>Develop and regularly update one-page work plans for SSO</u> Escalation and EPA-identified projects resulting from assessments previously described, through resolution.
 - SSO Escalation Projects
 - o Attend monthly DWM SSO meetings and provide support for development of rehabilitation project definition and implementation.
 - PASARP Fieldwork Inspection
 - <u>o</u> Provide inspection of PASARP fieldwork activities in support of <u>CDPMT needs.</u>
 - Other Professional Services
 - o Other professional services related to CD compliance and reporting not previously covered.