

AMENDMENT NO. 2 TO AGREEMENT

Project: Water Utility System Master Plan Update/Model
Recalibration, Project No. 14-2142 / CIP No. 50817

Background Data: Original Contract Date: September 21, 2015
Owner: City of Rapid City
Consultant: Black and Veatch Corporation

Nature of Amendment:

This amendment modifies the project scope and fee as noted in Exhibits A, B and adds personnel to Exhibit C as referenced below. This amendment includes:

Additional fee to cover additional project management through 2021 included in Phase A; Additional work required during Phase B, – GIS Data and Hydraulic Model Recalibration/Update, Phase E – Water Facility Assessments and Replacement Capital Improvement Plan (CIP) Development, Phase J – Training and Continuing Services Support, and the Removal of Tasks 151.4, 281, 283 and 285 from the scope of services.

Current Contract Amount: \$1,365,586.00

Change Requested: \$ 106,603.00

New Contract Amount: \$1,472,189.00

Exhibit C – Professional Services Rate Schedule

This amendment adds the following to Exhibit C by reference:

Name	Role	Hourly Billing Rate	
		2020	2021
Patricia Christensen	Task Leader – Hydraulic Modeling & Planning	\$165	\$170

Owner and Engineer hereby agree to modify the above referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The effective date of this Amendment is:

_____.



CITY OF RAPID CITY:

By: _____
Steve Allender, Mayor

Date Signed: _____

ATTEST:

By: _____
Pauline Sumption, Finance Officer

Date Signed: _____

ENGINEER:

By: _____
Black & Veatch Corporation

Date Signed: _____

REVIEWED BY:

Project Manager



EXHIBIT A

BLACK & VEATCH CORPORATION AMENDMENT NO. 2 TO AGREEMENT FOR WATER UTILITY SYSTEM MASTER PLAN UPDATE/MODEL RECALIBRATION PROJECT NO. 14-2142 (CIP NO. 50819)

SCOPE OF SERVICES

Additional Services

Task 113/115 – Recurring Meetings, Project Management, and Administration

Additional effort to continue meetings and project management tasks related to Phase B schedule extension.

Task 126 – Part 2 GIS Data Extraction and Hydraulic Model Update

Additional effort covering the addition of Valley View and Mesa View developments to the Part 2 GIS and hydraulic model update.

Task 133 – Future Service Area Population and Water Demand Projections

Additional effort required to revise pressure zone boundaries based on new/revised pressure criteria, and additional effort to include land exclusion area identification and development densities as criteria to include in the establishment of future service area boundaries.

Task 1008 – Revision of Future Population and Employment Distribution and Establishment of Service Area Boundary Guidelines

Additional effort required to align contiguous GIS shapefiles for service area boundaries over multiple versions/revisions to assure an accurate and efficient population overlay process.

Task 139 - Metered Sales Evaluation and Allocation to Hydraulic Model

Additional effort required to geocode and address match meter accounts that had missing location data, and effort required to evaluate and reconcile discrepancies between metered sales data and water production reports plus processing of a second set of corrected metered sales data.

Task 141 – Maximum Day 24-hour EPS Model Calibration Data Development and Input

Additional effort required to evaluate and reconcile discrepancies in recorded pump draw down data for accurate representation in the calibrated hydraulic model.

Task 215 – Develop Facility Replacement CIP for Facility Replacements

Additional effort required to update the asset tag information with new asset registry information.

Task 341 – On-Call Modeling Support Services – Development and Infrastructure Review Requests

Additional hydraulic modeling efforts required to support development reviews and City improvements relating to fire flow analyses, near-term capacity analyses, and input regarding the format and type of information required from developers to review requests.

Deducted Services

The following tasks will be removed from the scope to help the project reach completion by the end of 2020.

Task 151.4 – East Side WTP Site Evaluation and Selection

Task 281 – Valve Closure Management Approach

Task 283 – Water System Base Map Accessibility Approach

Task 285 – IT Hardware Requirements

EXHIBIT B

**BLACK & VEATCH CORPORATION AMENDMENT NO. 2 TO AGREEMENT
FOR
WATER UTILITY SYSTEM MASTER PLAN UPDATE/MODEL RECALIBRATION, PROJECT NO. 14-
2142 (CIP NO. 50819)**

FEE ESTIMATE SUMMARY

TASK	SERVICES	FEE
Additional Effort Items		
113/115	Meetings and Project Management Tasks	\$44,114
126	Part 2 GIS Data Extraction and Hydraulic Model Update	\$3,294
133	Future Service Area Population and Water Demand Projections	\$65,584
1008	Revision of Future Population and Employment Distribution and Establishment of Service Area Boundary Guidelines	\$5,635
139	Metered Sales Evaluation and Allocation to Hydraulic Model	\$17,772
141	Maximum Day 24-hour EPS Model Calibration Data Development and Input	\$10,932
215	Develop Facility Replacement CIP for Facility Replacements	\$2,136
341	On-Call Modeling Support Services – Development and Infrastructure Review Requests	\$25,000
	Subtotal: Additional Effort Items	\$174,467
Deducted Effort Items		
151.5	East Site WTP Site Evaluation and Selection	<\$24,060>
281	Valve Closure Management Approach	<\$18,399>
283	Water System Base Map Accessibility Approach	<\$18,704>
285	IT Hardware Requirements	<\$6,701>
	Subtotal: Deducted Effort Items	<\$67,864>
	Total: Amendment 2 Value	\$106,603