

**AMENDMENT NO. 1
TO AGREEMENT BETWEEN
SUNRISE ENGINEERING AND WEBER COUNTY
FOR
PROFESSIONAL SERVICES**

Upper Valley Sewer Study North

The AGREEMENT for Professional Services by and between WEBER COUNTY (COUNTY) and SUNRISE ENGINEERING (CONSULTANT) originally dated March 16, 2021, is hereby amended and supplemented to include the following: Scope, Fee and Schedule.

For the purposes of this amendment, “Agreement for Professional Services” and “the Agreement” shall refer to the document entitled “Agreement for Professional Services,” executed between the COUNTY and CONSULTANT to which this exhibit and any other exhibits have been attached.

PROJECT UNDERSTANDING

This amendment will provide Phase 1 Feasibility looking at high level option of collecting and pumping wastewater produced by the study area to the CWSID's existing treatment plant.

PART 1 – SCOPE OF WORK

See attached Exhibit A

PART 2 – FEE

See attached Exhibit B

PART 3 – SCHEDULE

See attached Exhibit A

EXHIBIT A

Sunrise Engineering (SEI) is pleased to submit a proposal to perform a high-level (Phase 1) Feasibility Study to provide sewer treatment for the area west of the Weber River in the vicinity of 12th Street.

BACKGROUND

Currently, the unincorporated area east of the Weber River is slated to have its wastewater pumped to and treated by the wastewater treatment plant owned and operated by Central Weber Sewer Improvement District (CWSID). The area west of the Weber River is currently not a part of CWSID's plans. There is a small lagoon system located near Little Mountain that treats the wastewater produced by 2 industrial connections.

Weber County anticipates that growth west of the Weber River will happen. This has been spurred by the recent interest in a large parcel of property being studied by EDCUtah. With the recent interest in growth west of the Weber River, the County sees a need to investigate the options to collect and treat wastewater in this area. It is anticipated that the 2 options for this would be.

1. Collect and pump the wastewater produced by the study area to the CWSID's existing treatment plant.
2. Expand and/or relocate the existing Little Mountain Treatment plant to accommodate the anticipated growth in the study area.

OBJECTIVE

It is proposed that a feasibility study be performed to evaluate the 2 options listed above. It is proposed that the feasibility study be broken into 3 pieces and 2 phases.

Phase 1A – Pump to CWSID

Feasibility would take a high-level look at pumping sewer from Western Weber area to Central Weber Sewer District. This would include understanding existing layout of sewer infrastructure, understanding growth projections in the existing area to best determine anticipated flows and treatment, and then layout of proposed infrastructure and costs associated with the layout.

Phase 1B – Expand/Relocate Little Mountain Treatment Plant

Feasibility would take a high-level look at expanding/relocating Little Mountain Treatment Plant. This would include obtaining data and documentation on all existing and projected flows including existing estimated growth projection analysis. We would evaluate the existing plant and functionality of the existing infrastructure to determine most efficient use of existing plant and upgrade of plant.

Phase 2 – Technical Analysis

Feasibility would only happen if Phase 1A or 1B shows that the cost may be feasible. Phase 2 would dive much deeper into the analysis. The Phase 2 feasibility could include (but not limited to), site specific topographical surveys, property rights of way / easements, geotechnical, environmental, etc.

The scope of work provided in this proposal will include efforts for Phase 1A only.

SCOPE OF WORK

PHASE 1A – Pump to CWSID

1. Kick off meeting/Data Collection/CWSID Meeting

- a. Site Meeting - Meet on site with Weber County personnel to review goals and objectives of the study, collect existing materials held by the county that identify/project possible growth opportunities in the area.
- b. CWSID Meeting - Meet with Plant Manager to obtain information on the CWSID's plant capacities and projections (excess capacity)
- c. Collection System Layout - Obtain information on collection system layout/plans for the east side of the Weber River.
- d. Lidar/Aerial Imagery - Download and obtain publicly available Lidar data and aerial imagery of the site.
 - i. Evaluate possible locations that make sense for pump stations
 - ii. Evaluate area that is likely to be sewered in this area.

2. Growth Projections

- a. Prepare Growth Projection - Prepare growth projection of how much wastewater is anticipated in the area and anticipated timeline for such growth.

3. CWSID Evaluation

- a. Preliminary Layout - Prepare preliminary layout of pump station(s) and force mains
- b. Exhibits - Prepare exhibits of evaluation
- c. Construction Costs - Prepare Opinion of Probable Construction Cost
- d. O&M Costs - Prepare Opinion of Probable O&M Cost

4. County Meetings/Deliverables

- a. Staff Meetings - Hold 2 Project Updates/work sessions with staff.
- b. Summary Report - Summarize information into a written report
 - iii. Deliverable would include:
 1. summary of data used, and assumptions made
 2. Growth Projections used
 3. Anticipated areas served
 4. Preliminary maps of options evaluated
 5. High level opinions of probable cost for this option (capital and O&M)
 6. Discussion of decision matrix
- c. Present report to the commission.

PHASE 1B – Expand/Relocate Little Mountain Treatment Plan

1. Kick off meeting/Data Collection/CWSID Meeting

- a. Meet on site with Weber County personnel to review goals and objectives of the study, collect existing materials held by the county that identify/project possible growth opportunities in the area.
- b. Download and obtain publicly available Lidar data and aerial imagery of the site.
 - i. Evaluate possible locations that make sense for treatment.

2. Growth Projections

- a. Prepare growth projection based off existing growth projections completed in Phase 1A
- 3. Treatment Plant Upgrade/Relocation Option**
 - a. Determine if existing Little Mtn Site is suitable for expansion. If not, evaluate possible other locations.
 - b. Prepare preliminary layout of LM Expansion or new WWTP.
 - i. Identify up to 3 possible options for Treatment
 - c. Prepare Opinion of Probable Construction Cost for treatment option
 - d. Prepare Opinion of Probable O&M Cost for treatment option
- 4. County Meetings/Deliverables**
 - a. Hold 2 Project Updates/work sessions with staff.
 - b. Prepare a decision matrix to analyze the options considered.
 - c. Summarize information into a written report
 - i. Deliverable would include:
 - 1. summary of data used, and assumptions made
 - 2. Growth Projections used
 - 3. Anticipated areas served
 - 4. Preliminary maps of options evaluated
 - 5. High level opinions of probable cost for this option (capital and O&M)
 - 6. Discussion of decision matrix
 - d. Present report to the commission.

EXCLUSIONS OF SERVICE

The following items are not included in the scope of work, but that could be included in Phase 2 of the feasibility study, would include

- 1. Possible meetings/coordination with Utah Division of Water Quality
- 2. Geotechnical Reports
- 3. Right of Way, Easement and Property evaluation
- 4. Environmental Assessment
- 5. High level engineer's opinion of probable cost
- 6. Financing plan and rate analysis
- 7. Impact Fee analysis
- 8. Topographical survey
- 9. Permitting
- 10. Public Involvement

SCHEDULE

SEI proposes to complete the work outlined in the Scope of Services 60 days after signature of contract

PHASE 1A - Pump to CWSID

EXHIBIT B

(PM)

Phase	Task	Work Task Description	Principal Engineer	Engineer V	Engineer IV	Engineer III	Engineer Intern (E.I.T.) I	Administrative II	(hours)	(\$)
0001		Kick Off Meeting/Data Collection/CWSID Meeting								
	001	Site Meeting	3	3					6	\$1,083
	002	CWSID Meeting	2	2					4	\$722
	003	Collection System Layout		4			4		8	\$1,044
	003	Lidar/Aerial Imagery		4			4		8	\$1,044
									Subtotal	\$3,893
0002		Growth Projections								
	001	Prepare Growth Projection	2	2			10		14	\$1,712
									Subtotal	\$1,712
0003		CWSID Evaluation								
	001	Preliminary Layout		2	2		8		12	\$1,482
	002	Exhibits		2	2		8	4	16	\$1,790
	003	Construction Costs	2	4		6	2		14	\$2,018
	003	O&M Costs	2	4		6	2		38	\$2,018
									Subtotal	\$7,308
0004		County Meetings/Deliverables								
	001	Staff Meetings	4	4					8	\$1,444
	002	Decision Matrix	2	2		4	4		12	\$1,634
	003	Summary Report	2	2		4	4		12	\$1,634
									Subtotal	\$4,712
Sub-total Hours/Miles/Days			19	35	4	20	46	4	152	
Hourly Billing Rate			\$199.00	\$162.00	\$183.00	\$129.00	\$99.00	\$77.00		
Total Dollars			\$3,781	\$5,670	\$732	\$2,580	\$4,554	\$308		
									TOTAL	\$17,625