



Date: November 15, 2022  
To: Weber County Board of County Commissioners  
From: Sean Wilkinson, AICP *SW*  
Director, Community Development Department  
Subject: **Request for approval of a contract with Aqua Engineering for Wastewater Consulting Services in an amount not to exceed \$37,000**

Agenda Date: November 22, 2022

Documents: Exhibit A: Consultant Contract  
Exhibit B: Project Scope of Work  
Exhibit C: Project Bids/Scoring Sheet

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**Summary:** The Weber County Community Development Department is requesting approval of a contract with Aqua Engineering for wastewater consultant services. The scope of work includes analysis of multiple options for providing sewer service in Western Weber County including potential expansion of the Little Mountain lagoon system or building a trunk line to the Central Weber treatment plant, among other options. The consultant will analyze potential growth for the industrial and residential development areas in far western Weber County and provide a study that includes options, locations, and costs for wastewater services. Aqua Engineering will provide the completed study by December 21<sup>st</sup>. The contract cost is for an amount not to exceed \$37,000.

# Exhibit A

## AQUA Engineering/Client Standard Terms and Conditions

533 W 2600 S., Suite 275 Bountiful, UT 84010

Phone: 801-299-1327/ Fax: 801-299-0153



### I. SCOPE

AQUA Engineering (AQUA) agrees to perform the services described in the proposal attached hereto which incorporates these terms and conditions. Unless modified in writing by the parties hereto, the duties of AQUA shall not be construed to exceed those services specifically set forth in the proposal. These terms and conditions and the proposal, when executed by Client, shall constitute a binding agreement on both parties (hereinafter the "Agreement").

### II. COMPENSATION

Client agrees to pay for the services in Article I in accordance with the compensation provisions in the proposal. Payment to AQUA will be made within 30 days after the date of billing. Interest on the unpaid balance will accrue beginning on the 31st day at the maximum interest rate permitted by law.

Time-related charges will be made in accordance with the billing rate referenced in the proposal or Agreement. Direct expenses and Subcontractor services shall be billed in accordance with the proposal or compensation exhibit attached to this Agreement. Otherwise, AQUA's standard billing rates shall apply.

### III. RESPONSIBILITY

AQUA is employed to render a professional service only, and any payments made by Client are compensation solely for such services rendered and recommendations made in carrying out the Work. AQUA shall perform the services in accordance with generally accepted engineering practices and standards in effect when the services are rendered. AQUA does not expressly or impliedly warrant or guarantee its services.

In performing construction management services, AQUA shall act as agent of Client. AQUA's review or supervision of work prepared or performed by other individuals or firms employed by Client shall not relieve those individuals or firms of complete responsibility for the adequacy of their work.

The presence of AQUA's personnel at a construction site, whether as on-site representative, resident engineer or construction manager, shall be for the sole purpose of determining that the work is generally proceeding in conformance with the intent of the project specifications and contract documents and does not constitute any form of guarantee or assurance with respect to contractor's performance. AQUA shall have no responsibility for the contractor's means, methods, techniques, sequences, for safety precautions and programs incident to the contractor's work, or for any failure of contractor to comply with laws and regulations applicable to performing its work.

### IV. INDEMNIFICATION

AQUA agrees to indemnify, defend, and hold Client harmless from and against any liability to the extent arising out of the negligent acts, errors or omissions of AQUA, its agents, employees, or representatives, in the performance of duties under the Agreement. Regardless of any other term of this Agreement, in no event shall AQUA be responsible or liable to the other for any incidental, consequential, or other indirect damages. The Client agrees to limit AQUA's liability for the Clients damages to AQUA's fee.

### V. ATTORNEYS' FEES

In the event of any litigation arising from or related to this Agreement or the services provided under this Agreement, the prevailing party shall be entitled to recover from the nonprevailing party all reasonable costs incurred, including staff time, court costs, attorneys' fees and all other related expenses in such litigation.

### VI. INSURANCE

AQUA shall maintain during the life of the Agreement the following minimum insurance:

1. **Comprehensive general liability** insurance, including personal injury liability, blanket contractual liability, and broad form property damage liability. The combined single limit for bodily injury and property damage shall be not less than \$1,000,000.
2. **Automobile bodily injury and property damage liability** insurance covering owned, non-owned, rented, and hired cars. The combined single limit for bodily injury and property damage shall be not less than \$1,000,000
3. **Statutory Worker's compensation and employers' liability** insurance as required by state law.
4. **Professional liability** insurance with limits of not less than \$1,000,000.

### VII. SUBCONTRACTS

AQUA shall be entitled, to the extent determined to be appropriate by AQUA, to subcontract any portion of the Work to be performed under this Agreement.

### VIII. ASSIGNMENT

This Agreement is binding on the heirs, successors, and assigns of the parties hereto. The Agreement is not to be assigned by either Client or AQUA without the prior written consent of the other.

### IX. INTEGRATION

These terms and conditions and the proposal to which they are attached represent the entire understanding of Client and AQUA as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with respect to those matters covered herein. The Agreement may not be modified or altered except in writing signed by both parties, provided further that any terms and conditions in any Task Order or purchase order issued in connection or under the Agreement which are inconsistent with the Agreement are deemed null and void.

### X. CHOICE OF LAW/JURISDICTION

This Agreement shall be administered and interpreted under the laws of the state in which the AQUA office responsible for the project is located. Jurisdiction of litigation arising from the Agreement shall be in that state.

### XI. SEVERABILITY

If any part of the Agreement is found unenforceable under applicable laws, such part shall be inoperative, null and void insofar as it is in conflict with said laws, but the remainder of the Agreement shall be in full force and effect.

### XII. NO BENEFIT FOR THIRD PARTIES

The services to be performed by AQUA hereunder are intended solely for the benefit of Client, and no right or benefit is conferred on, nor any contractual relationship intended or established with any person or entity not a party to this Agreement No such person or entity shall be entitled to rely on AQUA's performance of its services hereunder.

### XIII. WORK PRODUCT

AQUA and Client recognize that AQUA's work product submitted in performance of this Agreement is intended only for the Client's benefit and use. Change, alteration, or reuse on another project by Client shall be at Client's sole risk, and Client shall hold harmless and indemnify AQUA against all losses, damages, costs and expense, including attorneys' fees, arising out of or related to any such unauthorized change, alteration or reuse.

Any signed, stamped and dated Construction Documents prepared by the Consultant are the Work Product. CADD files are furnished for convenience only. The transfer of the CADD files for use by the Client shall not be deemed a sale and the Consultant makes no warranty, either express or implied, of merchantability or fitness for any particular purpose.

### XIV. SUSPENSION OF WORK

Work under this Agreement may be suspended as follows:

1. **By Client.** By written notice to AQUA, Client may suspend all or a portion of the Work under this Agreement if unforeseen circumstances beyond Client's control make normal progress of the Work impracticable. AQUA shall be compensated for its reasonable expenses resulting from such suspension including mobilization and de-mobilization. If suspension is greater than 30 days, then AQUA shall have the right to terminate this Agreement in accordance with Article XIV, Termination of Work.
2. **By AQUA.** By written notice to Client, AQUA may suspend the Work if AQUA reasonably determines that working conditions at the Site (outside AQUA's control) are unsafe, or in violation of applicable laws, or for other circumstances not caused by AQUA that are interfering with the normal progress of the Work. AQUA's suspension of Work hereunder shall be without prejudice to any other remedy of AQUA at law or equity.

### XV. TERMINATION OF WORK

This Agreement may be terminated as follows

1. **Client** (a) for its convenience on 30 days' notice to AQUA, or (b) for materially breaches this Agreement through no fault of Client and AQUA neither cures such material breach nor makes reasonable progress toward cure within 15 days after Client has given written notice of the alleged breach to AQUA.
2. **By AQUA** (a) for cause, if Client materially breaches this Agreement through no fault of AQUA and Client neither cures such material breach nor makes reasonable progress toward cure within 15 days after AQUA has given written notice of the alleged breach to Client, or (b) upon five days' notice if Work under this Agreement has been suspended by either Client or AQUA in the aggregate for more than 30 days.
3. **Payment upon Termination.** In the event of termination, AQUA shall perform such additional work as is reasonably necessary for the orderly closing of the Work. AQUA shall be compensated for all work performed prior to the effective date of termination, plus work required for the orderly closing of the Work. Except for termination of AQUA by Client for cause, AQUA shall also receive a termination fee equal to 15 percent of the total compensation yet to be earned under existing authorizations at the time of termination.

### XVI. NOTICES

All notices required under this Agreement shall be by personal delivery, facsimile or mail to the AQUA Project Manager and to the person signing the proposal on behalf of the Client and shall be effective upon delivery to the addressed stated in the proposal.

\_\_\_\_\_  
Engineer

\_\_\_\_\_  
Client

# Exhibit B

## West Weber Wastewater Consultant Scope of Work

### Basis

Weber County is in need of a Consultant specializing in Wastewater Collection and Treatment Systems. The Western part of the County is being pressured to expand sewer to allow for Industrial and Residential growth. Presently there is a small lagoon system, Little Mountain Sewer Service District (LMSID) that provides sewer to a few businesses. This lagoon system does not allow for much expansion or many more connections and it is in need of an upgrade.

### Tasks

1. Central Weber has a mainline located at the intersection of 12<sup>th</sup> Street and 4100 West. The plan is to have a gravity line go as far west as gravity will allow. The consultant will look at the collection system to service this area and will specifically look at the following:
  - a. The size of the mainline to serve the area.
  - b. The size of the Lift Stations to serve this area and their location.
  - c. The population that will be served.
2. Evaluate the current Little Mountain Sewer Lagoon System and determine its current capacity and how much more capacity it could provide. It does have a discharge permit for the Salt Lake, but has never discharged. The consultant will evaluate if there is any ability to expand or modify the system increase capacity.
3. Analyze the West Weber corridor and provide recommendation to serve the area. Provide recommendations for the following three items:
  - a. Collection System taking the wastewater to Central Weber.
  - b. Upgrading the present Little Mountain Sewer System.
  - c. Installation of a new treatment plant or lagoon system.
4. Work with the Weber County Economic Development Director to determine future growth wastewater needs and compare and contrast with current needs.

### Deliverables

1. A complete report with maps and data that has the following items:
  - a. Collection System showing the size of the sewer lines, lift station locations, with elevation data on each.
  - b. Documentation showing at what capacity the LMSID has presently, what it has capacity for and any possible upgrades that could increase the capacity.
  - c. An analysis of a new wastewater treatment plant. Showing location, an area needed, and a cost analysis.
  - d. Cost analysis on any proposed solutions both short and long term. (i.e. collection lines, lift stations, treatment plant, or lagoon system.)

### Schedule

1. This is an accelerated timeline. We would like to have the scope of work and deliverables to the Commissioners and Staff by December 21, 2022.

Weber County  
Attn: Sean Wilkinson  
2380 Washington Blvd. Suite 250  
Ogden, Ut 84401

Date November 3, 2022

TRANSMITTED VIA EMAIL (NO HARD COPY WILL FOLLOW):  
Sean Wilkinson (swilkinson@webercountyutah.gov)

**RE: Weber County – West Weber Wastewater Preliminary Engineering Report  
Professional Engineering Services Proposal**

Dear Sean:

Thank you for the opportunity for Aqua Engineering (AQUA) to provide a scope of services and fee estimate for the Weber County West Weber Wastewater Preliminary Engineering Report. We look forward to the opportunity to work with you on this project.

Below is a narrative of our project understanding followed by the proposed scope of work, project team, relevant experience, schedule, and fee estimate.

**PROJECT UNDERSTANDING**

This is a high level planning project to look at wastewater treatment alternatives for the West Area of Weber County. This is going to be a Preliminary Engineering Study (PER) that looks at several wastewater alternatives for the County. The Little Mountain Sewer Lagoon system is in the area and serves a small area and can serve several additional connections. This is one of the alternatives that will be evaluated. Extending a sewer line and connecting to Central Weber is another alternative that could be available. There is also a possibility of converting the Little Mountain Lagoon system into a mechanical treatment plant. This report will evaluate the general possibilities of these different options.

**SCOPE OF WORK**

**TASK 1 . PROJECT MANAGEMENT**

**1.1. Project Coordination and Reporting**

AQUA will develop, maintain, and monitor overall project scope, budget, and schedule throughout the duration of the Project. During scheduled review meetings, AQUA and Weber County will collaborate to ensure Project decisions made are in the best interest of the overall goals. Periodic coordination calls will take place as needed. Monthly progress reports will be prepared that include updates to the overall Project schedule.

### **1.2. Project Kick-off Meeting / Work Session**

Prior to commencement of the preliminary design, AQUA will conduct a kick-off meeting and work session with AQUA, the client, and team members. The work session will include a review of the proposed project site and acquiring and reviewing additional information related to project specifics and nuances.

### **1.3. Quality Assurance / Quality Control (QA/QC)**

AQUA Principals will be heavily involved in the Project and are responsible for providing overall quality assurance / quality control and ensuring that deliverables meet the highest of standards to meet the goals of the Project.

## **TASK 2 . DEVELOP DEMOGRAPHICS FOR AREA**

The demographics of the service area will be used to determine wastewater alternatives.

### **2.1. Determine Future Growth**

The future growth in the area will determine the size of any wastewater treatment alternatives. AQUA will work with the County to determine the location and size of the anticipated growth in the area.

### **2.2. West Weber Corridor Area**

The service area for the West Weber Corridor will be defined in collaboration with the County. This service area will be included in the potential wastewater flow to all the different alternatives evaluated.

### **2.3. Design Criteria**

Once the population demographics for the service area are determined the design criteria will be developed for the different alternatives. All the design criteria will be developed for the future growth assumptions. There are several key parameters that will need to be evaluated for the evaluation:

#### **2.3.1. Flow**

The flow generated from the service area will be a key design parameter. If data from the treatment plant is available, we can use that data to estimate future flow. However, if no data is available the States design criteria will be used and that is 100 gallons per person per day. Additional peaking factors will be assigned to evaluate hydraulics for the systems. This parameter will be used for collection system flow and treatment plant sizing.

#### **2.3.2. Biological Oxygen Demand (BOD)**

This is a measurement to determine the strength of the wastewater. This parameter will primarily be used when evaluating the capacity of the existing lagoons and a potential treatment plant at that site. It is assumed that the State design criteria will be used for this parameter unless there is better data available.

### **2.3.3. Total Suspended Solids (TSS)**

This is another key design parameter necessary in sizing treatment systems. The State guidelines will be used for this parameter unless there is better data available.

### **2.3.4. Nutrients**

Phosphorus and Nitrogen components are key parameters that are being regulated in the wastewater industry. The State currently has no guidelines for these parameters. Based on industry data these values will be established for determining the design for this system.

## **TASK 3 . EVALUATE CONNECTION TO WEBER BASIN**

This task will include the evaluation of connecting the area needing serviced to the central Weber line located at the intersection of 12<sup>th</sup> Street and 4100 West.

### **3.1. Gravity Line**

Based on existing mapping a gravity line will be sized and located. This line will travel as close to the intersection as possible. At which point a lift station will be required to get the wastewater to the Central Weber main line.

### **3.2. Line Sizing**

The lines will be sized with an appropriate peaking factor and based on the population projections. There will be both the gravity line and the pressure line from lift station that will be sized

### **3.3. Lift Station**

Based on the demographics and flow a new lift station will be sized. There are several different configurations that can be constructed. AQUA will coordinate with the operator of the lift station to determine which type will be acceptable for their operations.

### **3.4. Cost Estimate**

A cost estimate will be developed for the collection system and the lift station. This cost estimate will look at capital costs for the installation.

## **TASK 4 . EXISTING LITTLE MOUNTAIN SEWER LAGOONS SITE**

### **4.1. Existing Treatment Capacity**

The existing lagoons will be evaluated to determine the existing capacity. This will include an evaluation of the current discharge permit. With some of the new nutrient requirements the discharge may become limited due to the nutrients.

### **4.2. Lagoon Expansion**

The existing system will be evaluated for expansion. Often by adding aeration a lagoon system can be utilized to treat additional flow.

#### **4.3. New Treatment System**

Based on the design parameters developed in the demographics a new mechanical treatment system will be evaluated. This will assume a discharge permit with a phosphorus limit of 1 mg/l which is the current standard.

#### **4.4. Cost Estimates**

Cost estimates will be developed for expanding the existing lagoon system and installing a new mechanical treatment system. The cost estimate will include capital costs for each alternative.

#### **4.5. Preliminary Engineering Report**

The data will be combined into a report that addresses the following:

- Demographics
- Collection System
- Lift Station
- Existing Lagoon Capacity
- Lagoon Expansion Possibilities
- New Treatment System at the Lagoon Site

This will be a high-level report looking at the big picture which will allow the County to select the best alternative at which point additional detail will need to be developed. The intent is to provide enough information to select a treatment direction and then develop additional details. It is anticipated at this level of study no survey

#### **INFORMATION TO BE PROVIDED BY THE CLIENT**

1. Population Growth for the area being studied.
2. Mapping for the study area to be used for the base maps in the report
3. Any available topographic data
4. Water Quality data associated with the existing lagoon system
5. Discharge permit for the facility
6. Delineation of the service area

#### **INFORMATION PROVIDED BY OTHERS**

1. Central Weber Lift Station Design Requirements

#### **CLARIFICATIONS, EXCLUSIONS, AND ADDITIONAL SERVICES**

Additional or supplemental services beyond the above Scope of Work shall be performed only upon mutual agreement in writing between Weber County and AQUA. These services include additional work resulting from changes in the extent of the Project or its design including, but not limited to, changes in Project size, complexity, schedule, or character, or construction approach. Specifically, we note the following clarifications and exclusions to our Scope of Services:

1. Site Survey Work
2. Potholing of existing utilities
3. Water Quality Analysis

### **SCHEDULE**

AQUA is ready and available to begin work immediately upon receiving Notice to Proceed and is planning on completing the report by December 21, 2022. It is anticipated to meet this deadline the Notice to Proceed will be issued within the next week. It is anticipated that the kickoff meeting can be scheduled within a couple of days and the requested data can be delivered several days after the kickoff meeting.

### **COMPENSATION**

The estimated compensation for performing the Scope of Services as identified herein is on a time and material basis (T&M) not-to-exceed fee of \$37,000. Additional services can be provided upon request and mutual agreement. AQUA will submit progress invoices based on actual labor hours expended and reimbursable expenses.

A copy of our standard Terms and Conditions along with our Billing Rate Schedule is attached. If this Professional Services Agreement is acceptable to you, please sign the Authorization section below and on the first page of the Terms and Conditions, keep one original copy for your records and return one complete original copy to AQUA.

If you have any questions, please contact Brad Rasmussen at (801) 299-1327.

Sincerely,

Brad Rasmussen, P.E.

Encl.: Standard Terms & Conditions  
Billing Rate Schedule  
Preliminary Project Schedule



**AUTHORIZATION**

Project: West Weber Wastewater Preliminary Engineering Report  
Client: Weber County

Scope of Services Accepted by:  
Weber County

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Authorized Signature

---

Date

# AQUA Engineering/Client Standard Terms and Conditions

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1. **Client** (a) for its convenience on 30 days' notice to AQUA, or (b) for materially breaches this Agreement through no fault of Client and AQUA neither cures such material breach nor makes reasonable progress toward cure within 15 days after Client has given written notice of the alleged breach to AQUA.
2. **By AQUA** (a) for cause, if Client materially breaches this Agreement through no fault of AQUA and Client neither cures such material breach nor makes reasonable progress toward cure within 15 days after AQUA has given written notice of the alleged breach to Client, or (b) upon five days' notice if Work under this Agreement has been suspended by either Client or AQUA in the aggregate for more than 30 days.
3. **Payment upon Termination.** In the event of termination, AQUA shall perform such additional work as is reasonably necessary for the orderly closing of the Work. AQUA shall be compensated for all work performed prior to the effective date of termination, plus work required for the orderly closing of the Work. Except for termination of AQUA by Client for cause, AQUA shall also receive a termination fee equal to 15 percent of the total compensation yet to be earned under existing authorizations at the time of termination.

## XVI. NOTICES

All notices required under this Agreement shall be by personal delivery, facsimile or mail to the AQUA Project Manager and to the person signing the proposal on behalf of the Client and shall be effective upon delivery to the addressed stated in the proposal.

\_\_\_\_\_  
Engineer

\_\_\_\_\_  
Client

## 2022 BILLING RATE SCHEDULE

### Civil Engineering Hourly Billing Rates

Senior Principal Engineer	200
Principal Engineer/Project Manager	195
Project Engineer III	175
Project Engineer II	160
Project Engineer I	135
Planner/Funding Specialist	125
CAD Designer III	125
CAD Designer II	115
CAD Designer I	100
Administrative	95
Const. Management Specialist	145
On-Site Construction Inspection	125

### Electrical & Controls Engineering (SKM) Hourly Billing Rates

Electrical Principal Engineer	195
Electrical Engineer III	175
Electrical Engineer II	160
Electrical Engineer I	145
CAD Designer III	125
CAD Designer II	115
CAD Designer I	100
Controls Engineer III	155
Controls Engineer II	145
Controls Engineer I	135
Electrical Transmission Engineer	185
Administrative	95

### Reimbursable Expenses Schedule

Additional expenses will be handled in the following manner:

Mileage:	IRS per mile rate for vehicles not rented
Printing Costs:	Pass through at cost for project documents
Sub-Consultants:	Pass through at cost, no mark-up

## **Scope of Work West Weber Wastewater Study Weber County**

The western portion of Weber County is mainly undeveloped. There is increased pressure to expand access to sewer service into this area to allow for industrial and residential growth. Currently a few businesses are being serviced by the Little Mountain Sewer Service District (LMSID). The existing lagoon system is in need of an upgrade and has only limited capacity for new connections. Bowen, Collins & Associates (BC&A) is submitting this Scope of Work in response to Weber County's request for a Consultant to address sewer service alternatives in the area as described below.

### **West Weber Wastewater Study**

**Task 1: Evaluate Conveyance Pipeline to Central Weber Mainline.** Central Weber Sewer Improvement District (CWSID) has a gravity mainline at the intersection of 12<sup>th</sup> Street (1200 South) and 4100 West. We will identify and analyze the required sewer infrastructure necessary to convey collected sewer from the West Weber area to tie-into this existing gravity line. This will include analyzing the following system components.

**Task 1.a: Identify Future Growth:** BC&A is currently working with CWSID to update their collection system master plan. As part of this process, population and flow projections were developed for the West Weber area. These projections will be used to estimate the total population to be served by a new sewer system and calculate projected flows associated with this new growth.

**Task 1.b: New Conveyance Line:** We will estimate the size and approximate length of conveyance pipe (gravity and force main as required) to be constructed to convey collected sewer to the CWSID mainline. An approximate alignment will be identified for cost and sizing purposes, but a detailed routing analysis will not be conducted at this time.

**Task 1.c: Lift Stations:** We will estimate the required number and size of lift stations to serve the West Weber area. This will include approximate sizing, location, and number of required lift stations to convey sewer flows east to the CWSID line as described above.

**Task 2: Evaluate the Little Mountain Sewer Lagoon System.** The Little Mountain Sewer Service District (LMSID) Lagoon System currently services some of the existing development within the West Weber area. We will analyze the potential of utilizing the existing Little Mountain Sewer Lagoon System to treat sewer flow from potential west weber development. This will include the following:

**Task 2.a: Determine Existing Capacity and Expansion to Lagoon System.** We will evaluate the existing treatment capacity of the LMSID Lagoon System. This will include estimating the future population that could be served using the existing Lagoon System. We will also estimate the potential for expansion to the existing Lagoon System and estimate the potential population served by expanding the Lagoons. It has been assumed that this will be primarily a desktop analysis based on as-built drawings to be provided by Weber County. We will review current DWQ requirements for discharging lagoons to determine ultimate capacity of existing lagoon system. While a field visit will be conducted to familiarize the team with the existing facilities, no detailed field work, condition assessment, water quality testing or survey has been included.

**Task 2.b: Converting the Little Mountain Sewer Lagoon System to a Mechanical Plant.** We will evaluate the potential of converting the existing LMSID Lagoon System into a Mechanical Plant. This will include determining a recommended size, estimating the potential for discharge into the Great Salt Lake, and determining the approximate area needed for construction.

**Task 3: Analyze the West Weber Corridor.** Using the analysis developed as part of Tasks 1 and 2, we will provide a recommendation on how to serve the sewer needs of the area. This will include a recommendation on each of the following items:

- a. Collection system taking the wastewater flow to CWSID.
- b. Upgrading the existing LMSID system.
- c. Installing a new mechanical plant or lagoon system.

This will include a high-level analysis of both cost and non-cost issues associated with each alternative.

**Task 4: Coordinate with the Weber County Economic Development Director.** As part of this project, we will coordinate with the Weber County Economic Development Director (Director). This will include comparing the future and current wastewater needs of West Weber County. Coordination will include email, phone calls, and two in-person meetings including a kickoff meeting to review wastewater and population projections included with the CWSID master plan that BC&A is currently finalizing along with a review meeting of major findings of the analysis.

**Task 5: Document findings with a Final Report.** We will develop a West Weber sewer study report to document the findings of the analysis. The report will include the following elements:

- a. A GIS map of the collection system including pipe size, lift station locations, and system elevations.
- b. The existing and potential capacity of the LMSID system based on the current configuration and potential upgrades.
- c. The location, area, and cost of a new mechanical wastewater treatment plant.
- d. Cost analysis on all three alternatives including both construction as well as maintenance and operations costs.

A draft report will be provided for County review followed by a final report incorporating comments received from County staff. Both the draft and the final report will be provided in electronic format

## **FEE**

The cost for the work listed above will be completed on an hourly basis with a fee not to exceed \$32,720 without prior written consent.

## **SCHEDULE**

We will have the draft report completed by December 21, 2022. The final report will be delivered one week after receiving any final comments.

**Weber County  
West Weber Wastewater Study  
Engineering Man-Hour and Fee Estimate**

Last Updated 11/11/2021

		Office/Support		Technicians				Subtotal Hours	Subtotal Labor	Subtotal Expenses	Total Cost
Labor Category		Office	Editor	Eng. 2	Eng. 3	Eng. 9	Eng. 10				
Staff		MS	MH	TJ	NR	JB	KL				
2022 Labor Rate		\$112.50	\$100.50	\$128.50	\$136.50	\$196.50	\$205.50				
Task No.	Task Description										
1	Conveyance Pipeline to Central Weber Mainline	0	0	30	0	0	6	36	\$ 5,088.00	\$ -	\$ 5,088.00
2	Evaluate the Little Mountain Sewer Lagoon System	0	0	2	36	8	0	46	\$ 6,743.00	\$ 112.50	\$ 6,855.50
3	Analyze the West Weber Corridor	0	0	10	12	6	8	36	\$ 5,746.00	\$ -	\$ 5,746.00
4	Coordinate with the Weber County Economic Development Director	0	0	10	6	8	8	32	\$ 5,320.00	\$ 225.00	\$ 5,545.00
5	Document Finding with a Final Report	2	2	24	20	8	8	64	\$ 9,456.00	\$ 29.50	\$ 9,485.50
<b>Totals</b>		<b>2</b>	<b>2</b>	<b>76</b>	<b>74</b>	<b>30</b>	<b>30</b>	<b>214</b>	<b>\$ 32,353.00</b>	<b>\$ 367.00</b>	<b>\$32,720.00</b>

**Expenses include:**

Mileage reimbursement at \$0.75/mile

Reimbursement will be on a time and materials basis. Total compensation for completing the Scope of Services will not exceed the total amount shown without prior written approval of Owner. Hourly rates will be updated on January 1 of each calendar year by BC&A.

November 11, 2022

Mr. Sean Wilkinson  
Community Development Department  
Weber County  
2380 Washington Blvd, Suite 240  
Ogden, UT 84401

Re: Consultant Proposal  
West Weber Wastewater Consultant Services  
Weber County, UT

Dear Sean:

Psomas is pleased to submit this proposal for our consultant services related to analysis of the existing West Weber wastewater system, as well as recommendations for future improvements. We have teamed with Jared Oldroyd of JWO Engineering, who brings over 25 years of water resources experience, to provide Weber County a robust wastewater consultant team.

The attached exhibits detail our proposed scope of work and associated fee for providing Attached is a brief description of the anticipated additional work. As always, please call if you have questions or would like further clarification on any of these items.

Sincerely,

**P S O M A S**



Stuart Adams, PE, ENV SP  
Sr. Project Manager

SA:eh

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West Weber Wastewater Consultant Services Proposal  
Weber County, UT

## **EXHIBIT A**

### **PROJECT UNDERSTANDING**

As western Weber County continues to grow, there is an urgent need to expand sewer capacity for future residential, commercial, and industrial connections. Much of this future growth will occur beyond the reach of existing Central Weber Sewer Improvement District (CWSID) facilities.

We understand the County desires 1) an analysis of the current CWSID, as well as Little Mountain Sewer Service District lagoon system, and 2) recommendations of how best to provide sewer service to this area.

We assume we will have access to current data related to the existing sewer systems, such as condition of the facilities, current loading and flowrates, and limits of the future service area to be studied.

### **SCOPE OF WORK**

Based on the scope of work provided by the County, we propose to provide our engineering services in the following tasks:

- Task 1      Coordinate with Weber County Economic Development Department
- Task 2      Evaluate Expansion Possibilities of CWSID Street Gravity Sewer System
- Task 3      Evaluate Little Mountain Sewer Lagoon System and Treatment Options
- Task 4      Analyze Options for the West Weber Corridor

#### **Task 1   Coordinate with Weber County Economic Development Department**

Since the projections of future growth are key to our evaluations and analysis, we believe coordinating with the County’s Economic Development Department is one of the first tasks to be performed. We will meet with department staff to obtain their projections of population, the types of land use and their location, and the anticipated growth timeline.

#### **Task 2   Evaluate Expansion Possibilities of CWSID Gravity Sewer System**

We will meet with CWSID to obtain available information and data related to their systems. Based on this information we will perform the following:

- Analyze the existing sewer main in 12<sup>th</sup> Street (SR39) and estimate how far west within 1150 South corridor the gravity pipe may be extended.
- Assess available capacity in 12<sup>th</sup> Street sewer main.
- Develop a conceptual design for future lift stations to connect this area to the gravity sewer main.



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**Task 3 Evaluate Little Mountain Sewer Lagoon System and Treatment Options**

We will meet with representatives of Little Mountain Sewer Lagoon System and based on the lagoon information provided, we will perform the following:

- Estimate the lagoon’s current available capacity.
- Analyze the potential for expanding the existing lagoon and estimate the additional capacity.
- Assess feasibility of package treatment plant.

**Task 4 Analyze Options for the West Weber Corridor**

Based on our analyses outlined in the previous tasks, we will make recommendations for providing sewer service to this area utilizing the following three methods:

1. A collection system that conveys the sewer flow to CWSID’s gravity line in 12<sup>th</sup> Street
2. Upgrading/expanding the existing Little Mountain Lagoon system
3. Installing a new package treatment facility

Our recommendations will include an estimated cost for each, based on our concept level plans. Actual cost could vary considerably depending on changes or adjustments made during the subsequent design process.

The deliverable for this task will be a report summarizing our findings, recommendations, and cost estimates.

**EXCLUSIONS**

Items not specifically identified in the above Scope of Work are excluded from this work effort and would be considered additional services. Such services would include, but are not limited to, the following:

- Geotechnical related services or consultation
- Environmental services such as wetland delineation or environmental assessment.
- Utility locating
- Surveying services, such as topographic or boundary
- Reimbursable expenses, such as mileage and printing costs (we anticipate approximately \$400 in reimbursable expenses in addition to our fee)

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Weber County, UT

**EXHIBIT B**

**FEE SUMMARY / STANDARD FEE SCHEDULE**

This project will be billed monthly as a Fixed Fee (Lump Sum) basis, based upon percent completion of the individual tasks.

Task 1	Coordinate with Weber County Economic Development Department	\$3,490
Task 2	Evaluate Expansion Possibilities of CWSID Gravity Sewer System	\$3,980
Task 3	Evaluate Little Mountain Sewer Lagoon System & Treatment Options	\$4,925
Task 4	Analyze Options for the West Weber Corridor	\$7,090
<b>TOTAL FEE</b>		<b>\$19,485</b>

**BILLING POLICY AND PROCEDURE**

The fees quoted are a lump sum fee. Invoicing will be done every four weeks based on the percent of work completed during the period. Invoices are due and payable within 30 days of receipt. Psomas reserves the right to stop work if payment is not received within 60 days of invoice receipt. **Psomas will require a signed Agreement for the project and for all additional services.** All project authorizations are subject to the limitations of the quoted fee for services and the published Psomas contract standards unless modified by project specific contact documents. Payment is not conditional upon execution of a full Agreement. Payment for additional requested services is not contingent upon execution of an additional services Change Order.

**AUTHORIZATION TO PROCEED**

Acceptance of this Proposed Scope and Fee, as stated above, and authorization to proceed with the scope of work as outlined herein is granted by:

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

Print Name: \_\_\_\_\_ Company: \_\_\_\_\_

Date: \_\_\_\_\_

Note: This Authorization to Proceed is subject to the Standards, Terms, and Conditions of a Professional Services Agreement issued by the client or by Psomas as directed by the client. This document will be prepared for client or Psomas review and approval upon receipt of Authorization to Proceed according to the scope and fee set forth in this proposal.

# West Weber Wastewater Consultant Scope of Work

Basis of Project Decision			
Category (scoring based on a 1-5 point scale)	Submission		
	Aqua	Bowen Collins	Psomas
<b>I. TASKS</b>			
1. Strategy to examine collection system to service area.	5	5	4
a. Strategy to determine the size of a potential mainline.	5	5	5
b. Strategy to determine the size of potential Lift Stations and locations.	5	5	4
c. Strategy to determine the population to be served.	5	5	3
2. Strategy to evaluate the current LMSA lagoon system and capacity and potential expansion/modification assessments.	5	5	4
3. Strategy and Qualifications to analyze the corridor and provide recommendations to service the area.	5	5	4
a. Strategy to analyze a Collection System to Central Weber.	5	5	4
b. Strategy to analyze Upgrading the present LMSA system.	5	5	3
c. Strategy to analyze feasibility of a new treatment system.	5	5	3
4. Strategy to work with Weber County ED to determine future growth and wastewater needs and compare/contrast with current needs.	5	5	3
<b>Total Score</b>	<b>50</b>	<b>50</b>	<b>37</b>

<b>II. DELIVERABLES</b>			
1. Ability to provide a complete report with maps and data.	5	5	4
a. Ability to provide a recommendation for a complete Collection System.	5	4	3
b. Ability to provide documentation for LMSIDs capacity and possible upgrades.	4	5	3
c. Ability to provide an Analysis of a new treatment plant including location, area needed, and cost analysis.	5	4	3
d. Ability to provide a Cost analysis on any proposed solutions both short and long term.	5	5	4
e. Ability of the consultant to meet the December 21st deadline with all deliverables.	5	4	3
<b>Total Score</b>	<b>29</b>	<b>27</b>	<b>20</b>

<b>OVERALL SCORE</b>	<b>79</b>	<b>77</b>	<b>57</b>
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## Comments:

We received three proposals to evaluate wastewater needs in western Weber County. The Psomas proposal had the lowest cost by a significant amount, but we felt it was lacking in sufficient detail compared to the other bids. The other two proposals were similar in cost and detail, as reflected by the close scores. We have worked with both companies previously and believe both do quality work. After reviewing the proposals with the County Engineering Office, factoring in the costs, proposals, and conversations with the company representatives, we agreed that Aqua Engineering provided the best opportunity for Weber County to receive a complete report by December 21st. This opportunity outweighed the ~\$4,000 cost difference.