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September 5, 2024

Mayor Chris Anderson
Spring City
45 S 100 E
Spring City, UT 84662

Subject: Spring City Lagoon Cell #3 Remediation – Proposal for Engineering Services

Dear Mayor Anderson,

We understand the current urgency to remediate Lagoon Cell #3 so that it can be utilized when the capacity of the first two cells is no longer adequate to handle the system flows. The proposed approach and scope of the improvements would likely include:

1. Clearing and grubbing existing vegetation and topsoil
2. Assessing the condition of the clay liner
3. Reconditioning or replacing the clay liner material
4. Reconstructing the liner and topsoil layer.

Engineering services associated with these improvements include:

1. Geotechnical Analysis of existing Cell #3 liner and subgrade
2. Site Design Survey
3. Engineering Design and permitting of the Cell #3 remediation
4. Bid Phase Services (if requested)
5. Construction Engineering Services (if requested)

Proposed Scope of Services

1. Preliminary Engineering Services:
 - a. Project planning and administration to include initial planning, development an opinion of probable cost, coordination with the city, stakeholders and division of water quality, and general project management services.
2. Topographic Design Survey
3. Geotechnical Investigation and Report
 - a. Fieldwork: Two soil borings will be performed to collect subsurface soil samples of the proposed sewer line. Three to four test pits will be excavated by the city within Cell #3.
 - b. Geotechnical Laboratory Testing: Selected soil samples will be delivered to a certified lab for analysis of soil characteristics.
 - c. Engineering Analysis: The results of the field and laboratory investigations will be analyzed to determine characteristics and suitability of the liner material and subgrade.
 - d. Report Preparation: A geotechnical report will be prepared to summarize the findings of the investigation and provide recommendations for lagoon design and construction.

- e. Geotechnical Investigation Provisions:
 - i. It is possible that the Geotechnical Report finding may encounter differing subsurface conditions than anticipated that could affect the final design of the lagoon rehabilitation. If unanticipated conditions are encountered, ENGINEER will review the findings with CLIENT prior to proceeding with final design services.
- 4. Engineering Design Services – Following the preliminary engineering phase, we will provide engineering design services for the proposed lagoon improvements as follows:
 - a. Design will include a site plan showing the extents of the rehabilitation work and details as necessary to convey the design intent.
 - b. Technical specifications and contract documents for use in soliciting bids for the project.
 - c. Engineer's Opinion of Probable Cost (OPC) for the proposed improvements.
 - d. We will meet with the city for a design review meeting prior to soliciting bids for the work.
 - e. If required, we will submit final drawings and contract documents to the Division of Water Quality (DWQ) for plan review. Comments from the DWQ will be addressed and a bid set of drawings and contract documents will be prepared.
 - f. Provision – it is noted that the extent of remediation required will be further defined following receipt of the geotechnical report.
- 5. Bid Phase and Construction Engineering Services – Following final approval of the construction drawings and contract documents, we can provide the following bid and construction engineering services based if requested by the city.
 - a. Bid Phase Services – if requested by the city, we can assist with the solicitation of bids, conduct a pre-bid meeting, respond to bidders' request for information, assist with the bid opening, and provide a recommendation for award.
 - b. Construction Phase Services – if requested by the city, we can also provide construction engineering services to include assisting with a pre-construction meeting, conducting progress meetings, assisting with pay requests and change orders, and periodic project site visits to observe the progress of the work and conformance with contract documents.
 - i. The estimated budget for construction engineering and construction observation services included in the compensation section assumes a 60 day construction period concurrent with the main sewer project. The construction observer will perform periodic site visits of the lagoon project. Actual costs may be more or less than the estimated budgeted amounts based on the actual duration of the construction period and the actual services requested by the CLIENT.

SCHEDULE

Based on the approach described above, we would suggest the following general schedule for pursuing the project:

- a. Design & Permitting Phase – September 2024 – November 2024
- b. Bid & Construction Phase – December 2024 – March 2025

COMPENSATION

The estimate to complete the services described above is summarized as follows:

COMPENSATION SUMMARY			
Item	Phase	Fee	Fee Type
1	Preliminary Engineering Services	\$3,800	Lump Sum
2	Topographic Design Survey	\$3,000	Lump Sum
3	Geotechnical Investigation & Report	\$9,000	Lump Sum
3	Engineering Design & Permitting	\$13,600	Lump Sum
4	Bid & Construction Engineering Services	\$25,000	T&M
Total		\$54,400	

I would be happy to discuss this approach further with you at your convenience. Please don't hesitate to reach out to me at 435-760-0881 or jralphs@sunrise-eng.com.

Sincerely,
Sunrise Engineering, Inc.



Jesse Ralphs, P.E.
Vice President