



Addendum # 2
Wednesday May 24, 2024

Lagoon Biosolids Removal and Disposal

To All Plan holders:

This addendum shall become part of the Contract Documents as if originally included. The bidder shall acknowledge receipt of the addendum in Bid Documents.

The following are attached to this addendum

- **ATTACHMENT #1 – Questions and Answers.**

Additions and deletions

1. None with this Addendum

Changes

2. None with this Addendum

Site Visit Attendance

3. Midwest Injection
4. TerraGenesis
5. HK Dredging
6. Denali Water Solutions
7. Lagoon Pumping and Dredging
8. Goble Sampson on behalf of Spectrum Biotechnologies

Answers to Questions received by question deadline

See Attachment #1

Attachment #1
Response to Questions
Lagoon Biosolids Removal and Disposal

1. Is there going to be a scheduled site visit or should we schedule those independently directly with you?

Question has been addressed with Addendum No 1 issued Wednesday May 8, 2024.

2. Do you know in the past if land application has been an option?

In the past the Biosolids have met the criteria for a Class B biosolid and have been land applied using CDPHE approved methods for the land application of Class B biosolids.

3. Do you have any information on the sludge in the lagoon or if you would be open to us coming up to take a sample for analysis?

We do not have analysis results on the sludge in that lagoon, outside of one PFAS result, which was below the current CDPHE action level. A site visit can be scheduled with me to collect samples for their own analysis, a Biosolids Sampling Agreement will need to be signed pertaining to reporting requirements.

4. Do we have a preferred method for the removal of biosolids.

No

5. What is the estimate / budget for the project? The RFP states the City plans to get as much done as the budget allows.

Current City budget for the project is \$1,000,000.

6. Is there an approved disposal site already permitted?

The City does not have pre-permitted sites for disposal of the biosolids.

7. I noticed a required completion date, is there an anticipated start date?

The start date is dependent on the contractor. The lagoon is out of service, so work could start immediately.

8. Will there be other projects going on at the same time as this one?

Possible, it depends on timing of this project. We have an annual project that usually kicks off late October.

9. Is there room on site for geo-tubes or mechanical dewatering equipment? (Centrifuges, belt presses, etc.)

I doubt there is room for geo-tubes outside of the floodplain, but there should be room for mechanical dewatering equipment.

10. What methodology has been discussed to complete this project?

The methodology is up to the contractor, but must be approved by the City.

11. Is there fresh water available to the contractor on site for dewatering operations? If so, what is the GPM and will there be a fee?

Fresh water is available onsite via a fire hydrant, but use of non-potable water is preferred. The contractor will be required to rent a hydrant meter from the City and pay a refundable deposit, usually usage fees are waived for city projects.

12. Assuming the lagoon is clay lined?

Yes

13. Will there be a post survey to show the 1,000 DT has been dredged? If not, how will this be determined?

A post survey is not required. The 1,000 Dry Tons was an estimate provided in the bidding process to provided contractors a general idea on the size of the project.

14. Is this bid for total cleanout for the lagoon or until the contractor reaches 1,000 dry tons?

The contract is until the budget is exhausted or all solids are removed or until the completion date.

15. How was the volume determined/calculated?

The 1,000 Dry Tons was an estimate based on rough water depth to the solids and assuming a 5% concentration.

16. Have any material samples been taken?

The only recent analysis performed on the biosolids was for PFAS, which the result was below the current CDPHE action limit.

17. Have all permits been obtained minus the trucking and disposal if contractor decides to disposal of material at his own acquired site?

Outside of Trucking and Disposal site, the only other required item would be a City of Evans business license.

18. What dates are available for a site visit? What PPE is required for site visit?

Our availability varies day to day, but working hours are 7am-3:30pm Monday through Friday. Please provide a few options and I will identify what will work. No PPE is required, but close toed shoes and long pants are recommended.

19. Are we allowed to work 12hr/day, 7 days/week?

Possibly, it would depend on traffic volume and noise levels from the operation.

20. What is the current water depth to top of sludge? Asking so we can determine if we can float a floating hydraulic dredge in the water. The typical requirement is ~ 2' of water draft.

Current water level varies from 0-3', with an average of around 2'.

21. What process in the plant does this lagoon fall in? Is this the first lagoon in the system that catches all the rags and debris?

This was the primary or first lagoon in a three-cell lagoon system but was taken out of service in 2018. The old plant had debris screening both mechanical and manual bar screens, but there is still debris in the lagoon.

22. Will the aerators be removed, or will the contractor be required to do so? If so, are they anchored by concrete blocks and chains/cables?

The aerators were tethered to mooring post on shore and have already been removed.

23. Is there available power on site? We could potentially require a 480-volt 3 phase.

120v power is easily available with contractor provided extension cords. 480v 3 phase power could be made available, but would require a temporary meter setup and an account created with Xcel energy.

24. What is the engineered depth of the lagoon?

Engineered operating depth was 10'.

25. Can the sludge be pumped into trucks and the material be sprayed over a field?

Land application is a viable option and has been done historically. The contractor would have to verify that the biosolids meet the criteria of a Class B biosolid and the land application follows the CDPHE approved means and methods for the land application of a Class B biosolid and the land is permitted by CDPHE for land application of biosolids.

26. You mentioned the lagoon has been taken offline, are you still able to drain or add water to the lagoon?

The lagoon has been hydraulically isolated, but water could be added or removed using pumps to or from the lagoons that are still in service.

27. Can you confirm a contractors license and bid bond and performance bond is not required for this project? Only a City Business License?

The Contractor will need to be licensed with the State of Colorado for the handling, hauling and disposal of biosolids if land application is desired. The standard contract included in the RFP covers the Bonding and Insurance requirements.

28. Is the City Business License required to bid the job or after bid, before award? Asking because we are located in Texas.

City Business License is required before work commences.

29. Where could we discharge water for further draining of the Lagoon?

Water could be discharged into our Wasting Lagoons, but at a limited flow rate of 50gpm. Water could also be discharged to our out of service third lagoon but there is limited space available in that lagoon.

30. Is the lagoon bottom sloped or is it flat?

We believe it is flat, based on what we witnessed when the old secondary lagoon was repurposed in 2017.

31. Do Davis Bacon wages apply to this project?

The Project is being locally funded, so State and Federal funding rules do not apply like Davis Bacon wages and Certified payroll.

32. Is the Bid Lump Sum?

Bids are based on Unit Cost Per Dry Ton of biosolids removed and disposed from the Facility.

33. Is there any other pipping in the Lagoon beside the Inlet and Outlet pipes?

Not to our knowledge.

34. Are there any traffic concerns or issues?

We have not had problems before with our other projects.

35. How long has the Lagoon been out of service?

It was taken out of service and hydraulically isolated in 2018, since then it has only served intermittently as a water holding lagoon.

36. Is there Rip-rap in place on the banks?

Not to our knowledge.

37. Will you allow equipment in the bottom once the bulk of the biosolids have been removed?

Yes, as long as it does not damage the Earthen Liner.

38. Is there room for a semi to turn around?

Turning around would be very difficult, but the road does circle the lagoon and is adequate for semi traffic.

39. Is there anything we should be aware of on the bottom?

Not to our knowledge.

40. Is there a defined area to set up equipment?

Anywhere around the lagoon, as long as we maintain traffic circulation around the lagoon.

41. Is this bid for a complete cleanout?

The goal is to remove as many solids as possible, the project will be deemed complete when all solids are removed, or the budget is exhausted.

42. Have you surveyed the lagoon?

The City has not surveyed the lagoon.

43. Can we use the existing mooring post to anchor a dredge?

Yes, assuming they hold.

44. Does the irrigation ditch to the north influence the pond water level or seep into the pond?

We have seen the ditch influence the wasting lagoons to the east, but we have never completely drained this lagoon to know if the ditch is an influence on the lagoon.

45. If we start getting ground water coming into the lagoon, can we cut a ditch to contain it?
If yes where can that water be sent?

The goal is to keep the lagoon liner intact, but the City does understand that ground water is an issue that could affect the project. If a dewatering ditch is needed the City reserves the right to approve the means and methods. Depending on flow rates from the dewatering, the discharge could go to the wasting lagoons to the east.

46. Does the baffle curtain need to be removed or is it staying in-place? If removal, is the contractor responsible for the removal and disposal?

The City has previously tried to remove the baffle curtain, but with the amount of solids around the curtain it is stuck. The hope is that as the solids are removed for around the curtain the City and Contractor can work together to get the curtain removed and stored out of the way.

47. The Bid is for two prices, Mob and unit cost per Dry Ton?

Yes, please provide your Mobilization/demobilization fee and estimated number of Mobilizations, and the Unit Cost per Dry Ton for the biosolids removed from the Facility.

END OF ADDENDUM # 2