

**Nampa WWTP Phase II/III Upgrades
Design Review Committee
Thursday, August 15, 2019
Nampa Public Library | 215 12th Avenue South, Nampa, ID
7:00 AM – 9:00 AM
MEETING SUMMARY**



Meeting Overview

On Thursday, August 15, 2019, the Nampa Wastewater Treatment Plant Design Review Committee (DRC) convened its tenth meeting. The objectives of this meeting were to review the Phase II Upgrades procurement process, cost estimate, and risks, as well as discuss the resource recovery analysis. The following is a summary of topics discussed and feedback provided at the meeting. Please see meeting materials for more information.

Meeting Summary

Recycled Water Permit Update

Nate Runyan, City of Nampa, provided an update on the recycled water permit. The reuse permit was submitted to DEQ on March 21, 2019. The City is expecting to receive the draft permit and schedule by the end of September. Once the draft permit is issued, there will be a public comment period before it is finalized.

Questions included:

- 1) What is the status of the Bureau of Reclamation grant, and will it be effected by the change in schedule?
- 2) Will the City potentially need to be concerned about pharmaceuticals and other emerging contaminants of concern in the future?

Phase II Upgrades Procurement Update

Matt Gregg, Brown and Caldwell, provided an update on the Phase II Upgrades procurement process. Regarding Project E, three firms have been selected from the architectural roster and will be interviewed at the end of August. The goal is to have a firm under contract by October 1.

Regarding Project F, the project team is currently conducting a market sounding to determine if the project details and requirements are sufficiently clear. Once this feedback is received, an RFQ will be drafted and advertised in the fall. The goal is to have a firm under contract by spring 2020. Please see DRC Briefing #25 for more information.

Questions included:

- 1) What is the cost estimate for Project D?
- 2) Who is drafting the RFQ for Project E? Will the DRC have an opportunity to review?

Resource Recovery Analysis

Matt Gregg explained that the project team has begun analyzing alternatives for biogas recovery, including design options and opportunities for generating value from the recovered gas. With each of these alternatives there are trade-offs, such as increased capital costs. The project team will continue to analyze the current

alternatives and return to the next DRC meeting with more information. Please see DRC Briefing #26 for information on the alternatives currently under analysis.

Questions included:

- 1) Are there any firms that will invest in the capital costs? How might these firms influence market rates?
- 2) What are the opportunities for capturing carbon?
- 3) Is there a restriction on what types of crops Class B solids can be applied to?
- 4) Do landfills conduct any recovery activities and could this create competition?
- 5) Has City of Nampa Public Works looked at using this type of fuel for its vehicle fleet?
- 6) What is the status of the struvite recovery analysis?

Phase II Upgrades Risk Updates

Matt Gregg provided an update on the programmatic risk register, and how recent changes have impacted the programmatic contingency fund. A number of risks have been reduced in the construction and policy categories, but have increased in the repair and replacement categories. The project team will continue to monitor and mitigate identified risks as work progresses. Please see DRC Briefing #27 for more information.

Questions included:

- 1) Will the updates to the risk register be presented to the City Council?
- 2) How was the programmatic contingency amount determined? How will these dollars be used if not spent on the project?

Phase II Upgrades Cost Estimate Update

Matt Gregg provided an update on the Phase II Upgrades cost estimate. The current estimate is still within the existing budget. Changes in the estimate have been made where savings were identified, as well as increased costs associated with facility layouts and the recycled water program. The DRC will be kept informed of any additional changes to the cost estimate.

Next Steps

- The next DRC meeting will be Thursday, October 17, 2019, from 7-9 a.m. at the Nampa Public Library.
- Topics to discuss include:
 - Resource recovery analysis
 - Design Updates
 - Procurement Updates
 - Risk and Cost Updates

DRC Meeting #10 – August 15, 2019

Responses to Questions

Recycled Water Permit Update

- 1) What is the status of the Bureau of Reclamation grant, and will it be effected by the change in schedule?
The Bureau of Reclamation offers a WaterSMART Grant aimed at increasing water supply through investments in water recycling and reuse projects. The City must first submit a Feasibility Study to the Bureau of Reclamation before being selected to apply for the Grant. Currently, the City of Nampa is engaged in the Feasibility Study stage of the application. Once the Feasibility Study is approved, the City will be able to apply for grant opportunities, the next of which is expeted in Spring 2020. The delay of the Recycled Water Permit does not have an affect on the application for the WaterSMART Grant.

- 2) Will the City potentially need to be concerned about pharmaceuticals and other emerging contaminants of concern in the future?
Currently, neither the Environmental Protection Agency (EPA) nor the Idaho Department of Environmental Quality (IDEQ) regulate for pharmaceuticals or other emerging contaminants of concern. The concentrations of these constituents in recycled water is at extremely low levels that are safe for both human health and the environment.

Phase II Upgrades Procurement Update

- 3) What is the cost estimate for Project D?
Currently, the inflated cost estimate for Project Group D: Primary Digester No. 5 and Related Facilities totals \$10, 513, 414. Final design of the project is currently contracted for \$549,500.

- 4) Who is drafting the RFQ for Project E? Will the DRC have an opportunity to review?
The City of Nampa uses a roster of pre-qualified architectural firms for most building and renovation projects in the City. The Engineering Department elected to send a request for interviews to three firms from the roster, as is standard practice. Following interviews a firm will be selected.

Resource Recovery Analysis

- 5) Are there any firms that will invest in the capital costs? How might these firms influence market rates?
There are firms that would be willing to invest capital in return for a payback on that investment through resource sales. The City could look at engaging with this type of firm in the future.

- 6) What are the opportunities for capturing carbon?
Carbon is not typically captured as part of the wastewater treatment process. Carbon is a key source of energy to achieve the treatment goals for the facility.

- 7) Is there a restriction on what types of crops Class B solids can be applied to?
Yes. Class B Biosolids are not as treated at Class A Biosolids and thus must comply with further restrictions. Class B Biosolids have restrictions on how long after biosolids application the crop is harvestable. This varies depending on the type of crop.

- 8) Do landfills conduct any recovery activities and could this create competition?
Landfills have the ability to recover landfill gas and convert this into a usable energy source as well. The Ada County Landfill extracts gas from the landfill and sells it. The purchaser produces electricity that is used to power approximately 2,400 homes a year. The Canyon County Landfill does not have such a program. It is not anticipated that landfill resource recovery would create competition.
- 9) Has City of Nampa Public Works looked at using this type of fuel for its vehicle fleet?
The City of Nampa's Public Works department has not looked into using CNG for its vehicle fleet.
- 10) What is the status of the struvite recovery analysis?
The second sampling period has been completed. This marks a milestone in the further data collection phase of continued investigation. The preliminary design team will continue to analyze the data and develop a preliminary engineering report in the coming months that details the finding.

Phase II Upgrades Risk Updates

- 11) Will the updates to the risk assessment be presented to the City Council?
Updates to the risk register will be presented to City Council in the form of financial tracking updates. Visual project update dashboards are being developed to communicate financial updates through Phase II/III Upgrades at the plant.
- 12) How was the contingency amount determined? How will these dollars be used if not spent on the project?
Contingency values are determined by evaluating the cost of impact along with the probability of the risk occurring. The impact cost is associated with what would occur if the risk were realized. For some risks this is the cost of additional capital improvements (purchasing additional equipment or needing to invest further in facilities), permit violations, or increases in schedule duration that lead to incurred costs. An assumed probability is then associated with each risk. The impact cost is multiplied by the probability to determine the potential impact of each risk. The City then chose whether each risk should be funded through the contingency.