

HYBRID MEETING NOTICE

Joint Coordinating Committee

For The Truckee Meadows Water Reclamation Facility

DATE: May 31, 2023
TIME: 10:00 a.m.
PLACE: Truckee Meadows Water Reclamation Facility – Training Center
8500 Clean Water Way, Reno NV 89502

Public Notice: This Agenda is posted at Reno City Hall, Sparks City Hall, and the Washoe County Administration Complex. Further, in compliance with NRS 241.020, this notice has been posted to the official website for the City of Reno at www.reno.gov, the City of Sparks at <https://cityofsparks.us/>, and a link to this agenda has been posted to the State of Nevada website at <https://notice.nv.gov>. To obtain further documentation regarding posting, please contact Leslie Griffin at Reno City Hall, 1 East 1st Street, 7th Floor, Reno, NV 89501, or at griffinl@reno.gov.

Members of the Committee may participate in this meeting using the zoom video conference platform.

Members of the public may participate in the meeting by registering through the below zoom link which will provide the meeting ID number and call-in phone number.

Virtual link: <https://us06web.zoom.us/meeting/register/tZYsfu-gpz0rEtxKpRLhywLwLYQEEbe8nzlg>
In Person: Truckee Meadows Water Reclamation Facility – Training Center
8500 Clean Water Way, Reno NV 89502

Supporting Material: The designated contact to request support materials is Leslie Griffin, 1 East First Street, 7th Floor, 775-657-4595. Support materials are also available at the scheduled meeting.

Order of Business: Section titles on this agenda are for convenience and reference purposes and are not intended to define, govern, limit, modify or in any manner affect the titles of the items listed for consideration by the Committee. A time listed next to a specific agenda item indicates that the specific item will not be heard before that time – it does not indicate the time schedule of any other item. Items on the agenda may be removed, postponed, taken out of order and the Committee may combine two or more agenda items for consideration.

Accommodations: Committee and staff will make reasonable efforts to assist and accommodate persons with physical disabilities desiring to attend the meeting. If you require special arrangements for this meeting, please call 334-4230 prior to the date of the meeting.

Public Comment:

In-Person

A person wishing to address the public body shall submit a “Request to Speak” form to the presiding officer. Public comment, whether on items listed on the agenda or general public comment, is limited to three (3) minutes per person. Unused time may not be reserved by the speaker, nor allocated to another speaker. No action may be taken on a matter raised under general public comment until the matter is included on an agenda as an item on which action may be taken.

Virtual

No action may be taken on a matter raised under general public comment until the matter is included on a subsequent agenda as an action item.

Pursuant to NRS 241.023, those wishing to submit public comment may do so by sending an email to chewh@reno.gov, by leaving a voicemail at 775-531-7222 or at the meeting during virtual public comment. Public comment is limited to three (3) minutes per person. Voicemail Comments received prior to 4:00 p.m. on the day preceding the meeting will be transcribed, provided to the Committee for review, and entered into the record. Comments received after 4:00 pm on the day preceding the meeting will be provided to the Committee for review prior to adjournment, and entered into the record. Email comments will be provided to the Committee for review prior to adjournment, and entered into the record.

AGENDA

1. Call Meeting to Order.
2. Roll Call.
3. PUBLIC COMMENT – This item is for either public comment on any action item or for general public comment and is limited to no more than **three (3) minutes** for each commentator.
4. Approval of Agenda – May 31, 2023. (For Possible Action)
5. Approval of Minutes for the May 3, 2023 JCC Meeting (For Possible Action)
6. Discussion and potential approval of staff recommendation to proceed with the Construction Manager at Risk (CMAR) process for the New Dewatering Facility Project. (For Possible Action)
7. PUBLIC COMMENT – This is for general public comment limited to items that do not appear on the agenda and is limited to no more than **three (3) minutes** for each commentator. Pursuant to NRS 241.020, no action may be taken upon a matter raised under this item until the matter has been specifically included on an agenda.
8. Adjournment. (For Possible Action)

MINUTES

JOINT COORDINATING COMMITTEE (JCC) FOR THE TRUCKEE MEADOWS WATER RECLAMATION FACILITY (TMWRF) Wednesday, May 3, 2023

The Joint Coordinating Committee (JCC) meeting was hybrid using Zoom and meeting in person at Truckee Meadows Water Reclamation Facility - Training Center at 8500 Clean Water Way, Reno NV and conducted the following business:

1. Call Meeting to Order

The meeting was called to order by Chair Michael Drinkwater at 8:00 a.m.

2. Roll Call - A quorum was present.

Committee Members Present

Donald Abbott	Council Member, City of Sparks
Jenny Brekhus	Council Member, City of Reno
Jeff Cronk	Finance Director, City of Sparks
Michael Drinkwater	Community Services Director, City of Sparks
John Flansberg	Regional Infrastructure Administrator, City of Reno
Trina Magoon	Director of Utility Services, City of Reno
John Martini	Assistant City Manager, City of Sparks
Chris Melton	General Manager, SVGID

Members Absent

Vicki Van Buren	Finance Director, City of Reno
David Solaro	Assistant County Manager, Washoe County

Staff Present

Susan Ball Rothe	Deputy City Attorney, City of Reno
Matt Smith	Senior Civil Engineer, City of Reno
Haley Chew	Associate Civil Engineer, City of Reno
Casey Mentzer	TMWRF Plant Manager
Paul Shapiro	TMWRF Safety Coordinator
Rick Breese	TMWRF Operations Manager
Jerry Kingery	TMWRF Maintenance Manager

3. Public Comment

Member Brekhus stated Reno City Council reappointed her to the TMWRF JCC and she is excited to be back on the committee.

Susan Ball Rothe, Legal Counsel, stated that Agenda Item 9 is not listed for possible action so it will just be a presentation today. A special meeting can be scheduled to take action on the item.

4. Approval of Agenda - May 3, 2023 (For Possible Action)

IT WAS MOVED BY MEMBER FLANSBERG, SECONDED BY MEMBER MARTINI, TO APPROVE THE AGENDA. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT MEMBERS PRESENT.

5. Approval of Minutes for March 1, 2023 JCC Meeting (For Possible Action)

IT WAS MOVED BY MEMBER MARTINI, SECONDED BY MEMBER FLANSBERG, TO APPROVE THE MINUTES. THE MOTION CARRIED UNANIMOUSLY WITH EIGHT MEMBERS PRESENT.

6. Informational Management Reports from TMWRF Management Team:

a. Safety Update – Plant Manager

Paul Shapiro, TMWRF Safety Coordinator, reported there have been no reportable incidents since the last meeting. He also reported on a significant near miss incident. There was a fire in the dewatering building due to a bearing failure. The centrifuge was damaged and Maintenance was able to get it back in service in 24 hours. Analysis on the root cause of the fire is being done and will be reported at the next regular meeting.

b. Staffing Update – Plant Manager

Casey Mentzer, TMWRF Plant Manager, reported that since the last JCC meeting Michael Drinkwater was promoted from TMWRF Plant Manager to Community Services Director at the City of Sparks and is now a voting member of the JCC. Mr. Mentzer is now the TMWRF Plant Manager. There is a vacancy in the Operations Department. Recruitment is underway for two Maintenance Crew Supervisor vacancies.

c. FY23 Budget-to-Actual as of March 31, 2023 – Plant Manager

Mr. Mentzer reviewed some of the report line items included in the meeting packet.

d. The Influent Flow Split – Plant Manager

Mr. Mentzer reviewed the report included in the meeting packet noting there were exceptionally high flows the first three months of the year.

e. Ongoing Operations activities including status of processes - Operations Manager

Rick Breese, TMWRF Operations Manager, reviewed information on the Unit Operations Status report included in the meeting packet. He also reviewed Operations projects that have been completed.

f. Ongoing process and chemical optimization – Plant Manager

Mr. Mentzer stated they are looking to aggressively recruit to fill the vacant Process Engineer position. In the meantime, Mr. Breese and his team have taken on a lot of the more active chemical management and the process controls.

g. Ongoing Maintenance activities including status of work orders completion – Maintenance Manager

Jerry Kingery, TMWRF Maintenance Manager, reported on past due mechanical and electrical preventative maintenance (PM) tasks and work orders.

h. Update regarding status and schedule of asset management data input – Maintenance Manager

Mr. Kingery reported that the Asset Management data input is nearing completion. They will need to populate data from the current effluent irrigation pump station project when it is completed. Once the crew supervisor positions are filled he will work with them to finalize that input.

7. Update and discussion regarding compliance with the allowable Total Nitrogen (TN), Total Phosphate (TP) and Total Dissolved Solids (TDS) discharges in accordance with the National Pollutant Discharge Elimination System permit issued by Nevada Division of Environmental Protection (NDEP) – TMWRF Plant Manager

Mr. Mentzer reviewed information included in the meeting packet regarding compliance with the National Pollutant Discharge Elimination System permit issued by NDEP.

**8. Update of the TMWRF Capital Improvement Program (CIP) progress - City of Reno
TMWRF CIP Program Manager**

Haley Chew, City of Reno Associate Civil Engineer, reviewed the current status of the TMWRF CIP. There are sixteen engineering projects and evaluations, and two CIP construction projects currently underway. The status of capital project funding was also included in the report.

9. Presentation, discussion, and possible approval of staff recommendation to proceed with the Construction Manager at Risk (CMAR) process for the New Dewatering Facility Project

Matt Smith, City of Reno Senior Civil Engineer, reviewed the staff recommendation to proceed with the CMAR process. The staff report included in the meeting packet reviews information on the CMAR process and as well as the Dewatering Facility project.

Action on this recommendation will need to be taken at a future special meeting so the agenda can be properly noted for possible action.

10. Identification of future agenda items (For Information Only)

There will be a future agenda item to take action on using CMAR for the Dewatering Facility Project.

11. Discussion and direction regarding setting the next meeting date as August 2, 2023 (For Possible Action)

A special meeting is scheduled for Wednesday, May 31, 2023 at 10:00 a.m.

The next regular meeting is scheduled for August 2, 2023 at 10:00 a.m.

12. Public Comment

None

13. Adjournment (For Possible Action)

The meeting was adjourned at 8:52 a.m.

Respectfully submitted by,
Christine Birmingham, Recording Secretary

Agenda Item #6
May 31, 2023

TO: Joint Coordinating Committee (JCC)

FROM: Matt Smith, P.E., Senior Civil Engineer--City of Reno Utility Services Department

DATE: May 31, 2023

RE: Discussion and potential approval of staff recommendation to proceed with the Construction Manager at Risk (CMAR) process for the New Dewatering Facility Project. (For Possible Action)

The Truckee Meadows Water Reclamation Facility (TMWRF) is in need of improvements to the dewatering process due to lack of redundancy. This project has been included in the 5-year Capital Improvement Program (CIP) for the last two years and construction is tentatively budgeted for Fiscal Year 2025. Jacobs Engineering Group (Jacobs) was selected to provide pre-design services for this project.

The scope of services with Jacobs included the evaluation of improvements to the existing dewatering building to expand capacity, consideration of a new dewatering building to increase capacity to full buildout, cost estimates for both options, process modeling, and evaluation of project delivery options. Jacobs held workshops with TMWRF and Reno/Sparks staff to identify and analyze the most important project and program elements, in consideration of project delivery, and to discuss potential construction opportunities with experienced CMAR contractors. Furthermore, Jacobs collected owner feedback from government agencies, both local and statewide, regarding their experience with CMAR projects of similar scope and size. Jacobs is recommending CMAR as a project delivery method for the construction of the new dewatering facility at TMWRF.

Staff gave a presentation to the Joint Coordinating Committee at the May 3, 2023 meeting with regard to project delivery options and provided a recommendation for the new dewatering facility project based on the results of the workshops held with Jacobs.

Staff is seeking approval to proceed with the CMAR process for the New Dewatering Facility Project.



Truckee Meadows Water Reclamation Facility (TMWRF) Dewatering Building CMAR Presentation

Joint Coordinating Committee
May 31, 2023



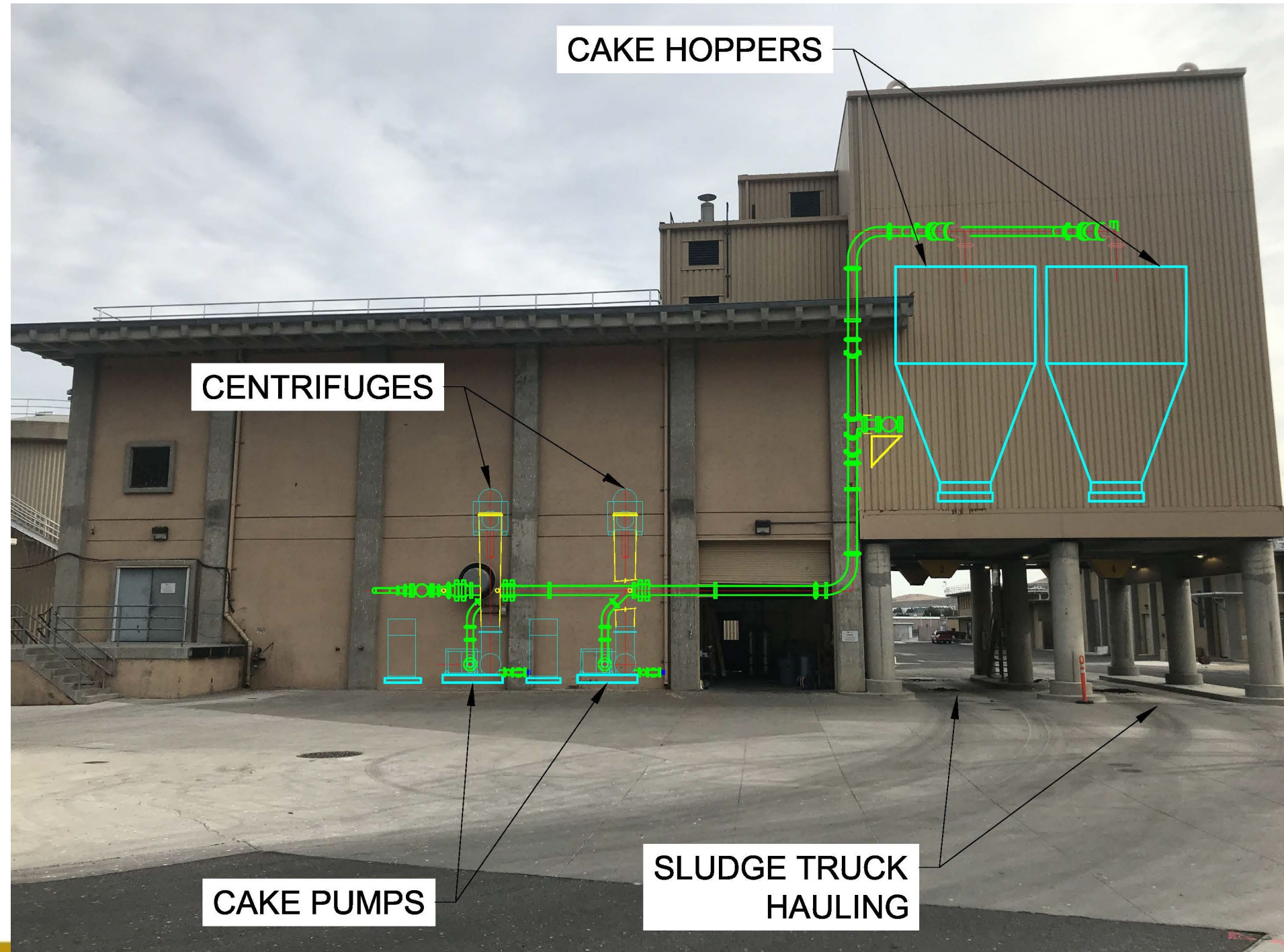
Agenda

- Project Overview
- Project Status
- What is Design-Bid-Build(DBB)/Construction Manager at Risk (CMAR)?
- Technical Memorandum Results and Staff Recommendation

Project Overview

- **Goals**

- Redundancy
- Maintenance
- Capacity
- Performance
- O&M Savings



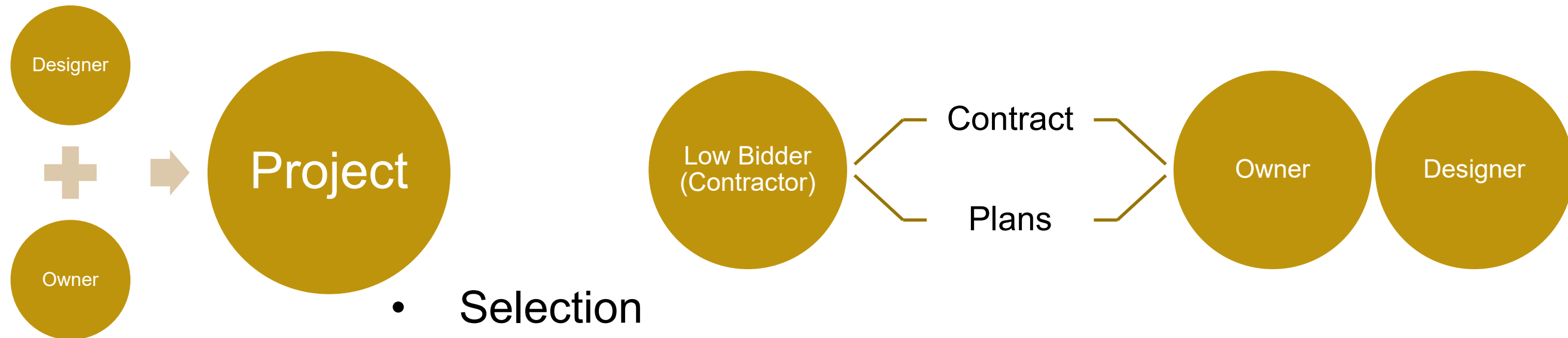
Project Status

- ~~Pilot Testing & Evaluation~~
- ~~Existing Dewatering Building Improvements Design~~
- Jacobs Pre-Design** ★
 - 10% design
 - Recommendation: New Building
- Detailed Design*
- Construction*



What is Design Bid Build (DBB)...

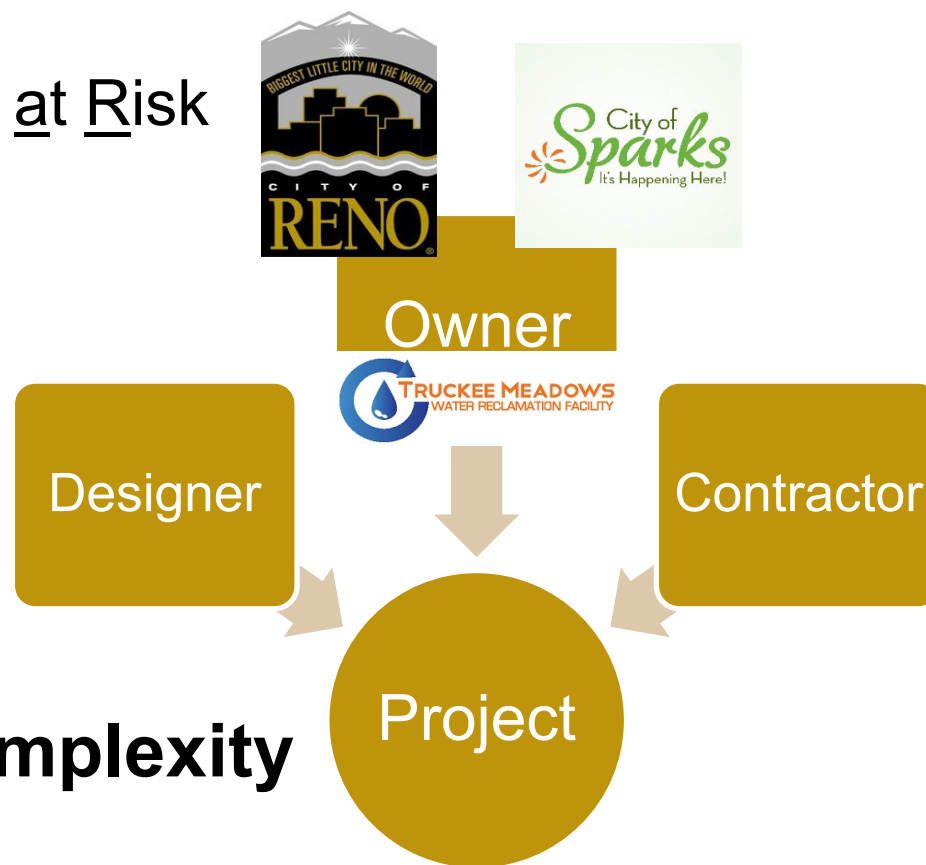
Design-Bid-Build



- Selection
 - Low Bid
- 0%-100% design, then bid.
- Team = Owner and Designer
- Preferred on most projects (less unknowns, less complex, the better DBB candidate).

What is CMAR...

Construction Manager at Risk



- **Geared Toward Complexity**

- APWF (COR & TMWA)
- Moana Pool (COR)
- Virginia Street (RTC)
- STMWRF Expansion (WC)

- **Selection**

- Qualifications based, not low bid
- Request for proposals, interview, selection

- **Design phase**

- CMAR introduced early ~30% to contribute to design

- **Guaranteed Maximum Price**

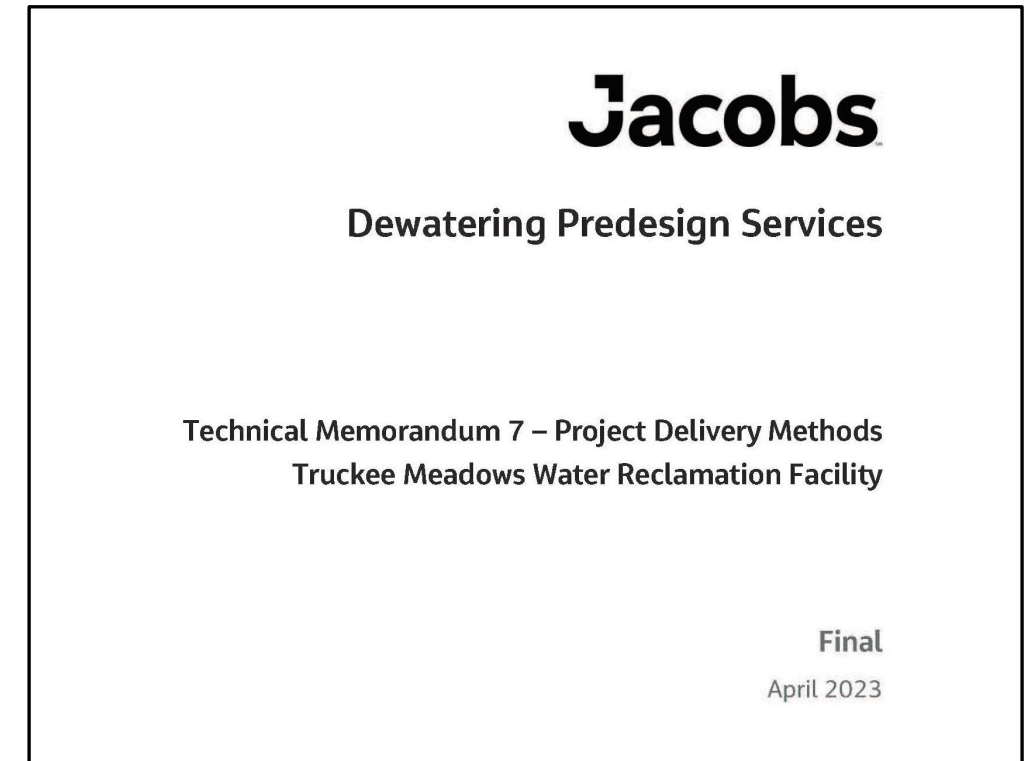
- **Team = Owner, Designer, Contractor**

- **Preferred on buildings, complex projects (more unknowns, more complex, the better CMAR candidate).**



Technical Memorandum 7 – Project Delivery Methods

- Owner and Contractor Engagement
 - Over 10 CMAR contractors contacted
- Owner Feedback
 - Local and state-wide agencies solicited
- Delivery Method Screening
 - DBB + Pre-purchase, DBB, CMAR



Jacobs TM 7 – Project Delivery Methods Results

- Workshop with TMWRF/Reno Staff
- Construction Project Criteria Ranked/Paired comparison analysis
- Results scored CMAR highest between 3 options

Table 5. Project Delivery Method Ranking

Task D Project Delivery Methods

Criteria	Criteria Weighting	DBB+Prepurchase	DBB	CMAR
Risk management	6	1	1	3
Constructability/VE input	5	2	1	3
Budget optimization	4	2	1	3
Construction schedule	3	2	1	3
Low final construction cost	2	2	3	1
Market competition	1	3	3	1
Total Weighted Score:		37	27	57

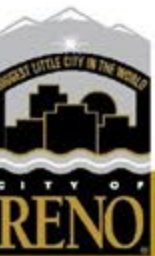


Recommendation

- I move to approve the staff recommendation to proceed with the Construction Manager at Risk (CMAR) process for the New Dewatering Facility Project.



Additional Slides



CMAR Details

- Selection
 - Qualifications based, not low bid
 - Request for proposals, interview, selection
- Guaranteed Maximum Price (GMP)
 - Not low bid
 - Project cost typically declines as progress is made
- Initiating a CMAR
 - CMAR is a team member in early design (~30% Ideal)
 - Most impactful when design is fairly nascent

Design - Bid – Build vs CMAR

Risks

- Change orders
- Construction schedule delays

Pros

- Awarded to lowest bidder
- Typical and more familiar method

Cons

- Lack of contractor input during design
- Design and construction are sequential, resulting in longer schedule

Risks

- Early selection of qualified construction manager is critical for success

Pros

- Collaborative team effort during design/construction
- Qualifications based contractor selection
- Expedited delivery/schedule

Cons

- Potentially higher cost
- Single point of failure if CMAR is inexperienced

What is “Dewatering” at TMWRF?



Sludge

=



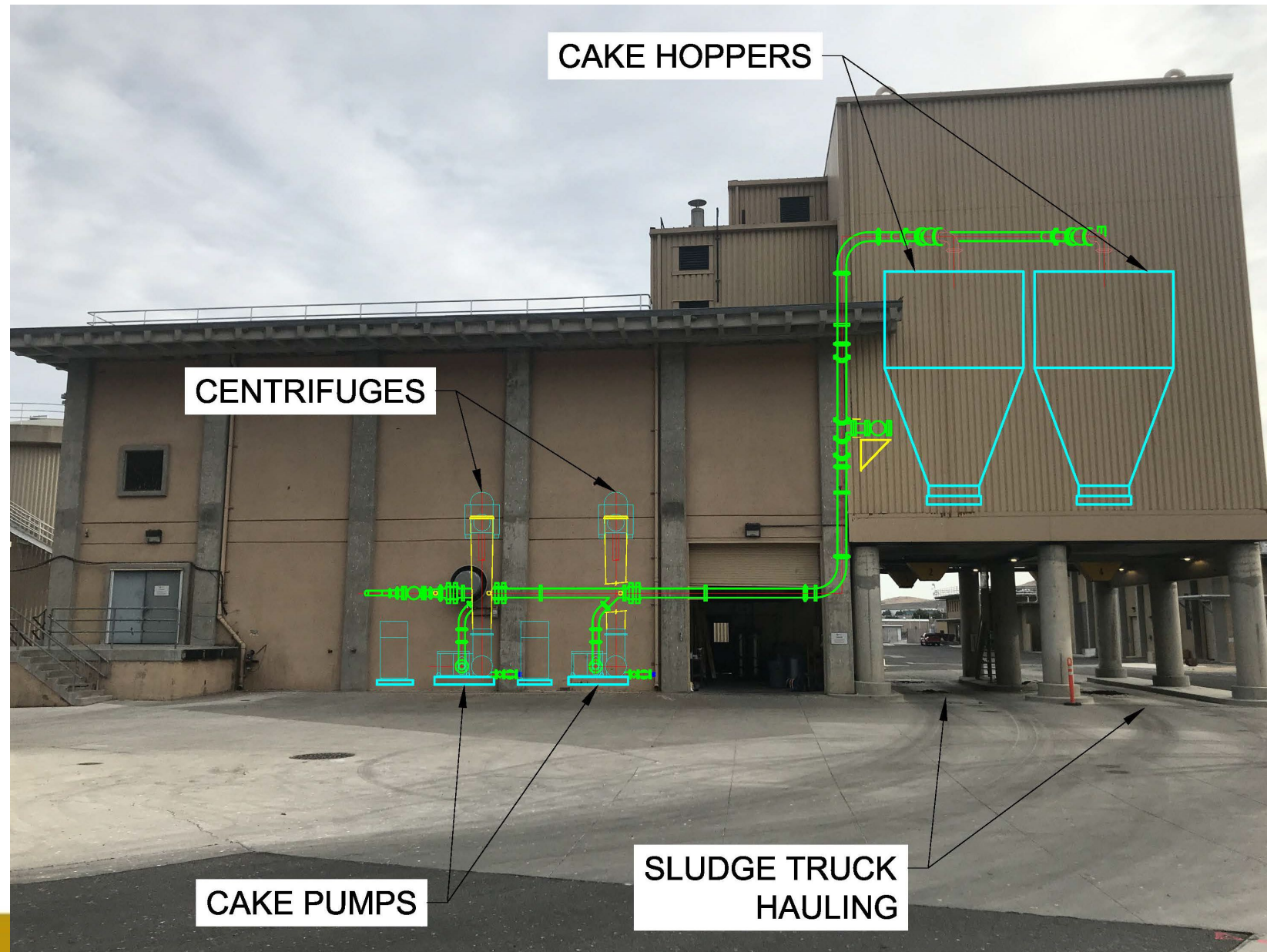
Centrate

+

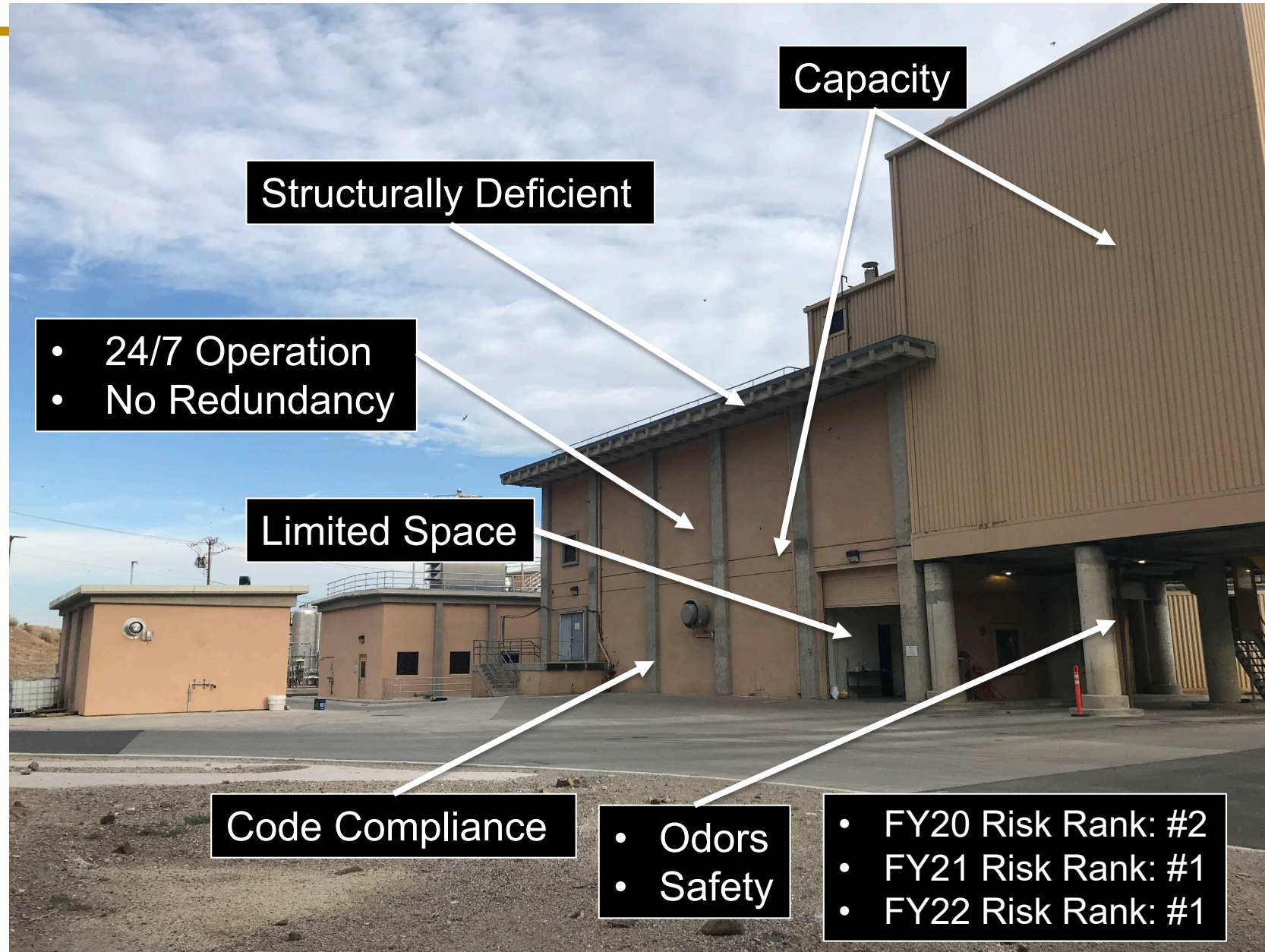


Cake

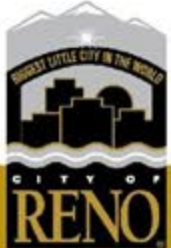
What is “Dewatering” at TMWRF?



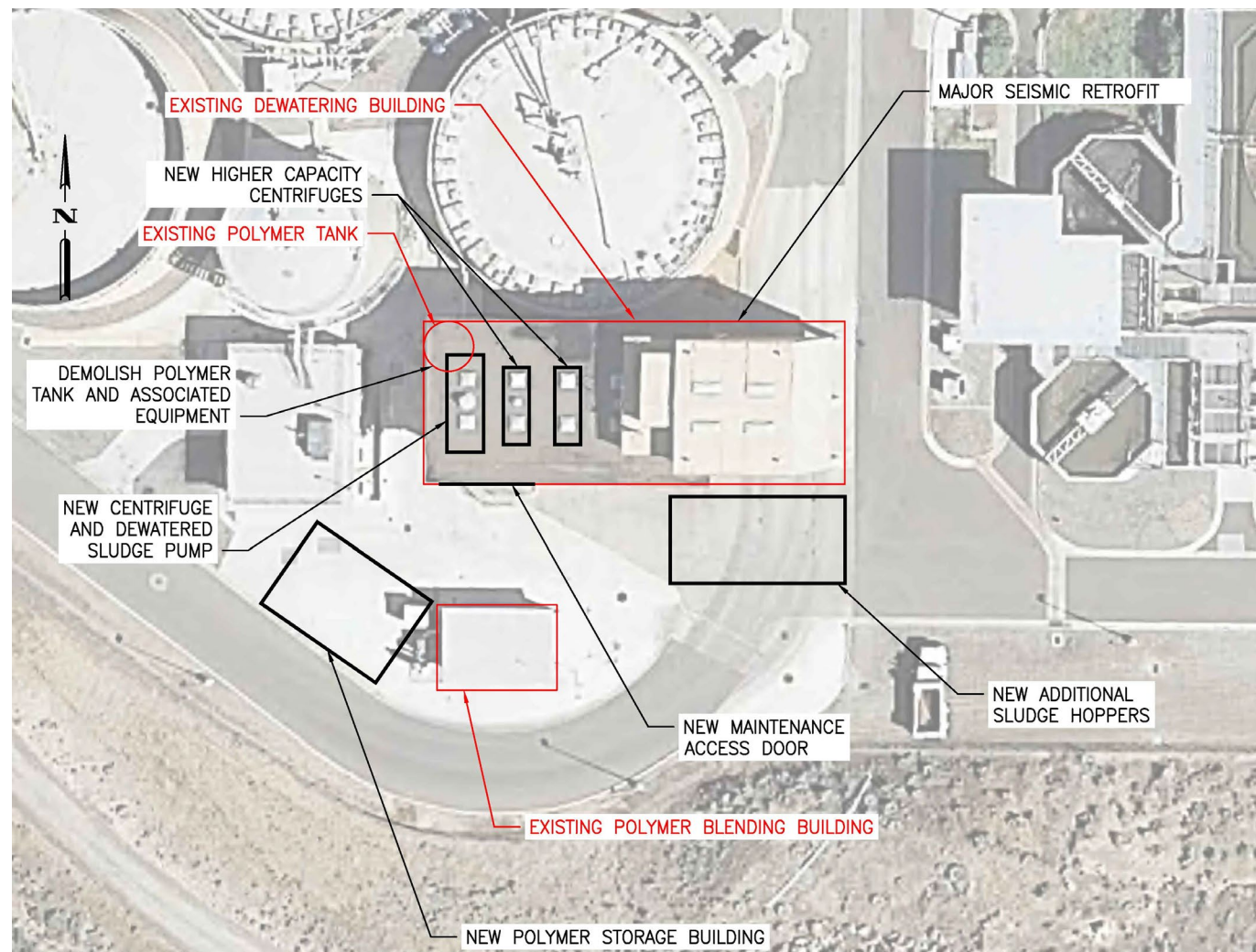
Why It's Recommended



Constraints!



Previously Proposed Improvements



Approval at JCC

TMWRF CAPITAL IMPROVEMENT PROGRAM FY 2024 – 2028

Project
Dewatering Building

Project Description
 The dewatering process at TMWRF is an important part of water recovery and biosolids disposal. The equipment is undersized and lacking in redundancy and efficiency. A seismic report identified that this building has structural deficiencies that would render the building and process inoperable should a large enough earthquake occur. This project includes the evaluation and pre-design of a new building and rehabilitation of the existing building. The two options will be analyzed and selected based on direction of the committee.

Risk Assessment Rating
 CONSEQUENCE RATING : Serious consequence/impact Disruption
 PROBABILITY RATING: Possibility of recurring incidents

Failure Consequence/Impact

- Failure of the dewatering facility will require mobilization of temporary dewatering facilities to the site and around the clock trucking of solids offsite at significantly increased cost.

Critical Milestones

- Evaluation and pre-design to be completed FY23
- Design is scheduled for FY24
- Construction is tentatively scheduled for FY25

Potential Permit Ramification


- Minimal, assuming temporary equipment can be quickly mobilized to the site.

Strategic Plan Impact

- Supports strategic initiative of compliance with the Operating permit and Asset Management initiatives

Cost Est:
 FY24: \$5,000,000
 FY25: \$45,000,000

➤ Project Photo

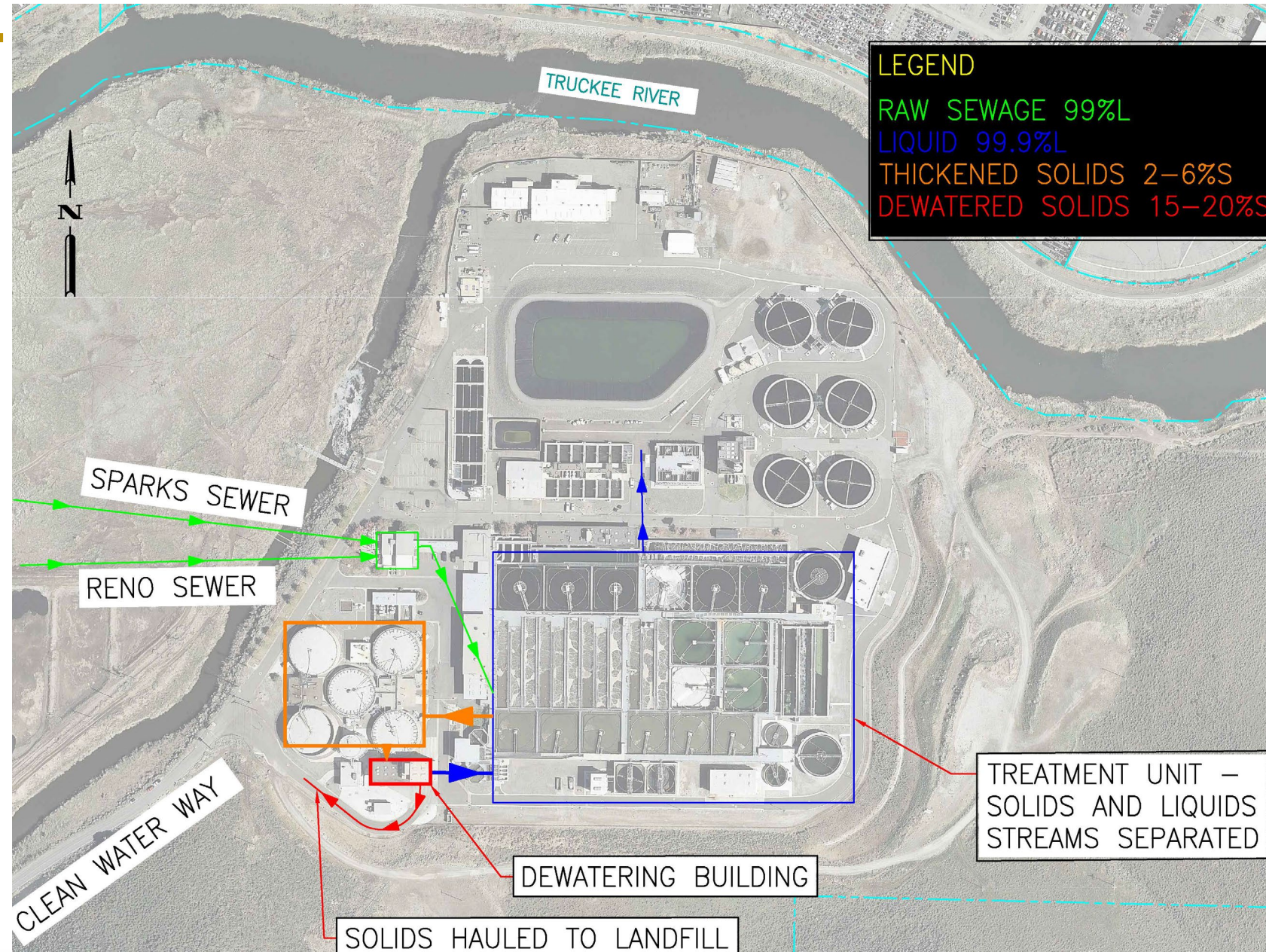


FY18 Risk Rank: 6/35 - HIGH
 FY19 Risk Rank: 6/35 - HIGH
 FY20 Risk Rank: 2/31 – VERY HIGH
 FY21 Risk Rank: 1/30 - HIGHEST
 FY22 Risk Rank: 1/32 – HIGHEST
 FY23 Risk Rank: 1/33 - HIGHEST

FY24 Risk Rank:
1/40 - Highest



What is “Dewatering” at TMWRF?



Previous JCC/Council Action

- March 19, 2020 – Dewatering pilot assistance project awarded
- December 17, 2020 – Dewatering process improvements design awarded
- [Dewatering improvements seismic report completed](#)
- January 5, 2022 – RFQ Release for new dewatering building and alternatives
- March 3, 2022 – Jacobs selected as consultant for pre-design