HYBRID MEETING NOTICE

Joint Coordinating Committee For The Truckee Meadows Water Reclamation Facility

DATE: May 3, 2023 TIME: 8:00 a.m.

PLACE: Truckee Meadows Water Reclamation Facility – Training Center

8500 Clean Water Way, Reno NV 89502

<u>Public Notice</u>: 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/tZwoduyuqz0sGN0iJZa4N8HKdvZfQfec8uaV

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.

<u>Order of Business</u>: 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 334-2350 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 3, 2023. (For Possible Action)
- 5. Approval of Minutes for the March 1, 2023 JCC Meeting (For Possible Action)
- 6. Informational Management Reports from TMWRF Management Team:
 - a. Safety Update Plant Manager
 - b. Staffing Update Plant Manager
 - c. FY23 Budget-to-Actual as of March 31, 2023 Plant Manager
 - d. The Influent flow split Plant Manager
 - e. Ongoing Operations activities including status of processes Operations Manager
 - f. Ongoing process and chemical optimization Plant Manager
 - g. Ongoing Maintenance activities including status of work orders completion Maintenance Manager
 - h. Update regarding status and schedule of asset management data input Maintenance Manager
- 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) by the Plant Manager.
- 8. Update of the TMWRF Capital Improvement Program (CIP) progress by the City of Reno TMWRF CIP Program Manager.
- 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.
- 10. Identification of future agenda items. (For Information Only)
- 11. Discussion and Direction regarding setting the next meeting date as August 2, 2023 at 10:00am. (For Possible Action)
- 12. 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.
- 13. Adjournment. (For Possible Action)

MINUTES

JOINT COORDINATING COMMITTEE (JCC) FOR THE TRUCKEE MEADOWS WATER RECLAMATION FACILITY (TMWRF) Wednesday, March 1, 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 Acting Chair Trina Magoon at 10:00 a.m.

2. Roll Call - A quorum was present.

Committee Members Present

Jeff Cronk Finance 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
Vicki Van Buren Finance Director, City of Reno

Members Absent

Donald Abbott

Council Member, City of Sparks

Jenny Brekhus

Council Member, City of Reno

Armando Ornelas Community Services Director, City of Sparks David Solaro Assistant County Manager, Washoe County

Staff Present

Susan Ball Rothe

Matt Smith

Haley Chew

Michael Drinkwater

Deputy City Attorney, City of Reno
Senior Civil Engineer, City of Reno
Associate Civil Engineer, City of Reno
TMWRF Plant Manager, City of Sparks

Casey Mentzer TMWRF Process Engineer

3. Public Comment

None

4. Approval of Agenda - March 1, 2023 (For Possible Action)

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

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

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

6. FY23 Budget-to-Actual as of January 31, 2023 - TMWRF Plant Manager (For Information Only)

Michael Drinkwater, TMWRF Plant Manager, presented the report noting the status of several line items. There were no questions.

7. Update and discussion regarding the TMWRF draft discharge permit issued by the NDEP (For Possible Action)

Member Flansberg reported that he and Member Martini have been meeting with Jennifer Carr and her staff and noted there is some information in the draft permit that is not achievable by our plant standards.

Mr. Drinkwater reported that the Sparks and Reno staffs have been meeting and are preparing comments to send back to NDEP. They have not yet heard back from NDEP regarding a meeting date.

Member Flansberg explained that the new draft permit ratchets down some of the discharge numbers to a point where it is not achievable in our current standards. As we know more we will report back to the JCC.

No action was taken.

8. Presentation, discussion, and possible approval of the proposed FY24 Operational Budget - TMWRF Plant Manager (For Information Only)

Mr. Drinkwater reported there has been only one change since this was presented at the JCC February meeting and that is the estimate for the electrical utility. Mr. Weber, Sparks Finance Department, has been tracking our electrical usage and has adjusted that number accordingly.

Mr. Drinkwater answered questions from Member Flansberg about the Inflation Allowance.

Casey Mentzer, TMWRF Process Engineer, answered questions from Member Martini regarding chemical prices. They are only expecting large jumps in price for bleach.

9. Presentation, discussion, and possible approval of the proposed Five-Year Capital Improvement Program (CIP) for fiscal year 2024 (For Possible Action)

Matt Smith, TMWRF CIP Program Manager, presented the Five-Year CIP summary including the risk ranking and stated the summary has not changed since the last JCC meeting.

IT WAS MOVED BY MEMBER MARTINI, SECONDED BY MEMBER FLANSBERG, TO APPROVE THE FIVE-YEAR CIP AS PRESENTED. THE MOTION CARRIED UNANIMOUSLY WITH SIX MEMBERS PRESENT.

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

None

11. Discussion and direction regarding setting the next meeting date as May 3, 2023 (For Possible Action)

The next TMWRF JCC meeting is scheduled for May 3, 2023 from 8:00 a.m. to 9:30 a.m.

12. Public Comment

None

13. Adjournment (For Possible Action)

The meeting was adjourned at 10:22 a.m.

JCC TMWRF Minutes March 1, 2023 Page 3 of 3

Respectfully submitted by, Christine Birmingham, Recording Secretary

Agenda Item 6 May 3, 2023

TO: Joint Coordinating Committee (JCC)

FROM: Casey Mentzer, P.E., Treatment Plant Manager

City of Sparks

DATE: May 3, 2023

RE: Informational Management Reports from TMWRF Management Team

- 1. Informational Management Reports from TMWRF Management Team:
 - a. Safety Update Plant Manager
 - b. Staffing Update Plant Manager
 - c. FY23 Budget-to-Actual as of March 31, 2023 Plant Manager
 - d. The Influent flow split Plant Manager
 - e. Ongoing Operations Activities Operations Manager
 - f. Ongoing process and chemical optimization Plant Manager
 - g. Ongoing Maintenance Activities Maintenance Manager
 - h. Update On Status and Schedule of Asset Management Data Input Maintenance Manager

TMWRF Operations Costs - FY23 Budget to Actual Unaudited

3/31/2023

Capital Outlay (Budget excludes \$1M Contingency) Total Capital Outlay	1,828,185	262,041 262,041	1,566,144 1,566,144	14% 14%
Capital Outlay (Budget <i>excludes</i> \$1M Contingency)	1,828,185			
Capital Outlay (managed by I mwk Stall)	•			
Capital Outlay (managed by TMWRF staff)	•			
Total Non-Discretionary Services & Supplies	>	3,030,802	010,216	85%
Other Non-discretionary Services & Supplies Total Non-Discretionary Services & Supplies	222,550 s 3,673,078	174,806 3,056,862	47,744 616,216	79% 83%
General Insurance Premium Other Non discretionary Services & Supplies	568,700	550,255	18,445	97%
Common Service Charge	706,828	530,122	176,706	75%
Electricity Common Sorvice Charge	2,175,000	1,801,679	373,321	83%
Non-Discretionary Services & Supplies				
Total Discretionary Services & Supplies		8,464,449	5,708,051	60%
Other Discretionary Services & Supplies	1,036,000	689,156	346,843	67%
Professional Services (includes temp agency costs)	759,583	321,551	438,032	42%
Biosolds Hauling	1,649,995	1,288,284	361,711	78%
Operating Supplies	1,427,439	794,502	632,936	56%
Maintenance and Repairs	2,664,551	540,771	2,123,780	20%
Chemicals (Budget <i>excludes</i> \$300K Contingency)	6,634,932	4,830,184	1,804,748	73%
Discretionary Services & Supplies	, 3,047,231	1,303,036	1,004,134	03/0
Total Benefits		1,983,038	1,064,194	65%
Non-contractual Benefits**	102,207 252,784	120,656	14,306 132,128	86% 48%
Cell Phone, D/C Match, Tuition, Uniform	1,192,444 102,207	769,751 87,902	422,693	65% 86%
Retirement - PERS Health Insurance	1,499,796	1,004,729	495,068	67%
	1 400 700	1 004 730	405.000	670/
Benefits	, 3,0/3,323	3,822,123	2,057,206	0370
Other Salaries Total Salaries	o s 5,879,329	6,131		#DIV/0!
Leave Bank adjustments & cash outs	219,300	79,391	139,909	36%
Overtime/Premium Pays*	722,100	511,539	210,561	71%
Longevity	95,200	103,199	(7,999)	108%
<u>Salaries</u> Base Salaries	4,842,729	3,121,862	1,720,867	64%
Calaria		-		
	Budget	03/31/2023)	Budget	Used
	FY23 Working	(thru	Remaining	%
		FY23 Actuals		

^{*} Overtime/Premium Pays include Overtime Callback, Worked Holiday, Standby and Night Differential

^{**} Non-contractual Benefits includes Medicare, Workers Comp, Unemployment and OPEB

Item 6d - TMWRF Influent Flow Splits Q1 2023

January		
Flow (MGD)	Percentage	
20.3	61.5%	
12.7	38.5%	
33.1		
	Flow (MGD) 20.3 12.7	

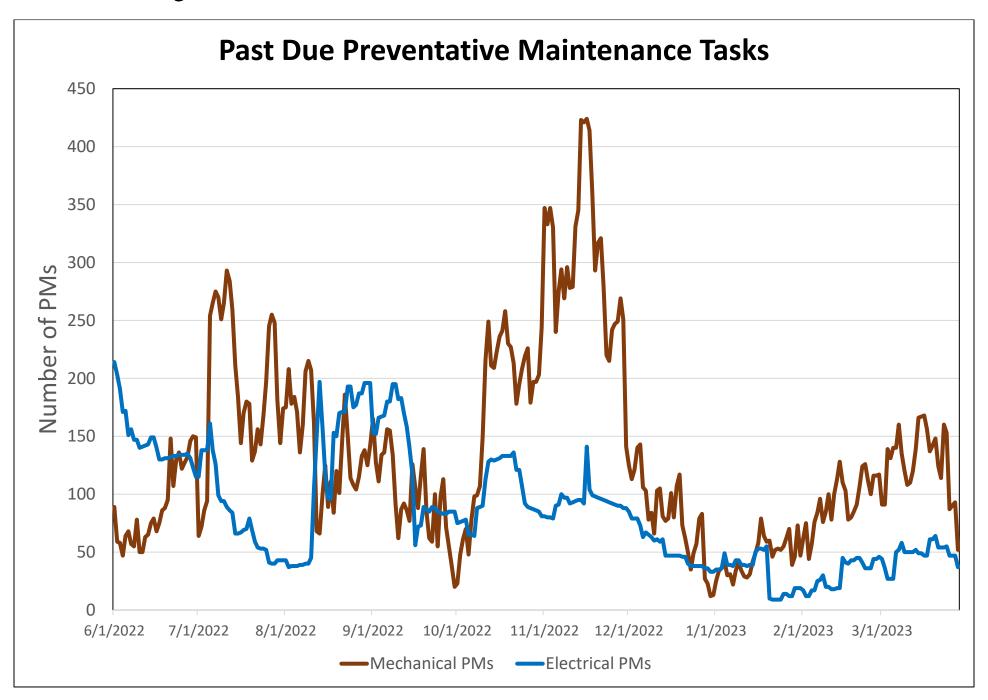
February			
	Flow (MGD)	Percentage	
Reno	20.0	61.8%	
Sparks	12.3	38.2%	
Total	32.3		

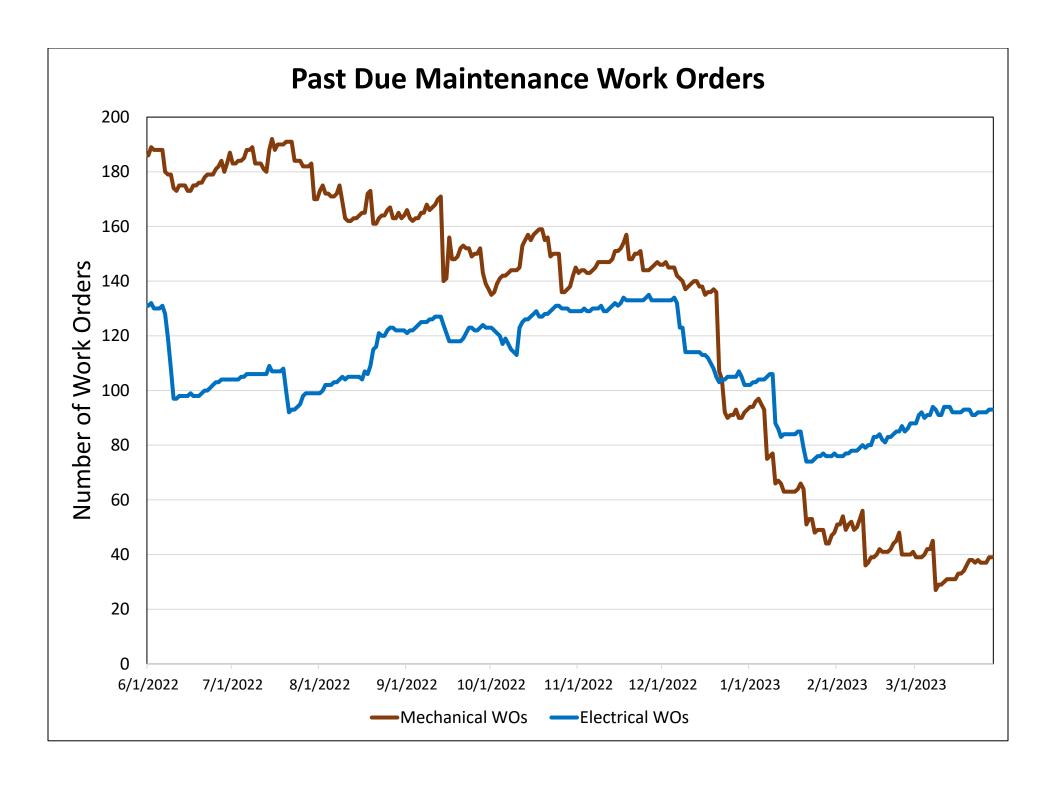
March			
	Flow (MGD)	Percentage	
Reno	22.0	64.4%	
Sparks	12.2	35.6%	
Total	34.2		

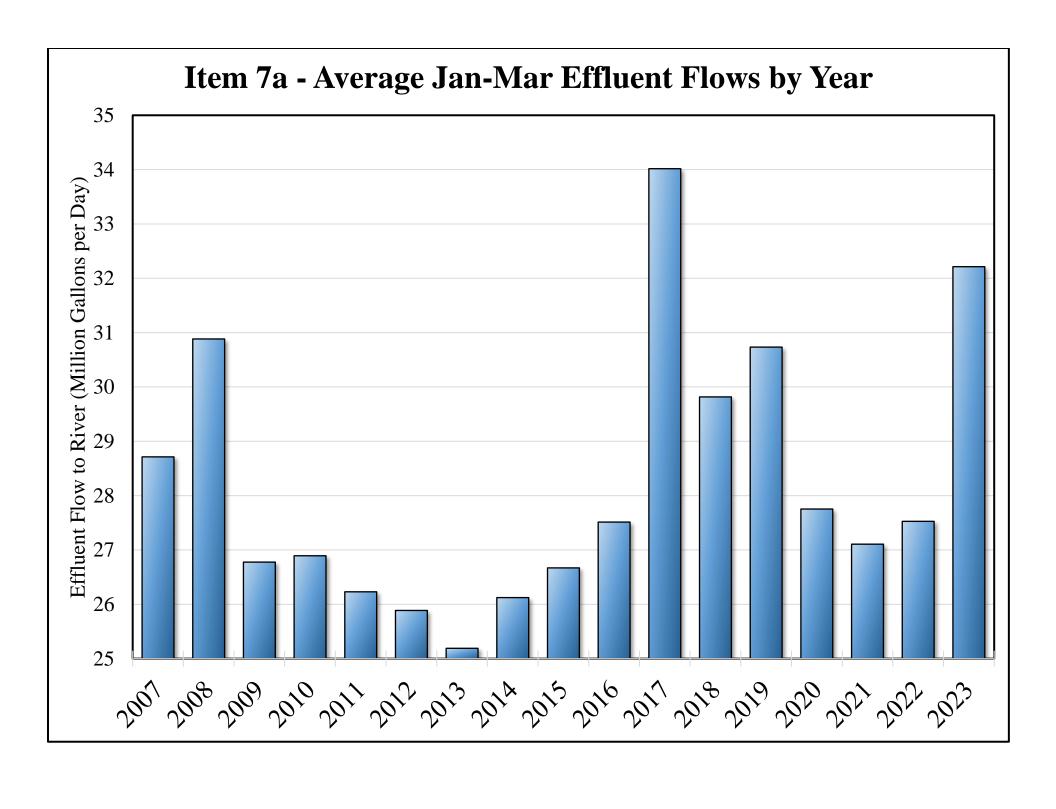
Item 6e – TMWRF Unit Operation Status

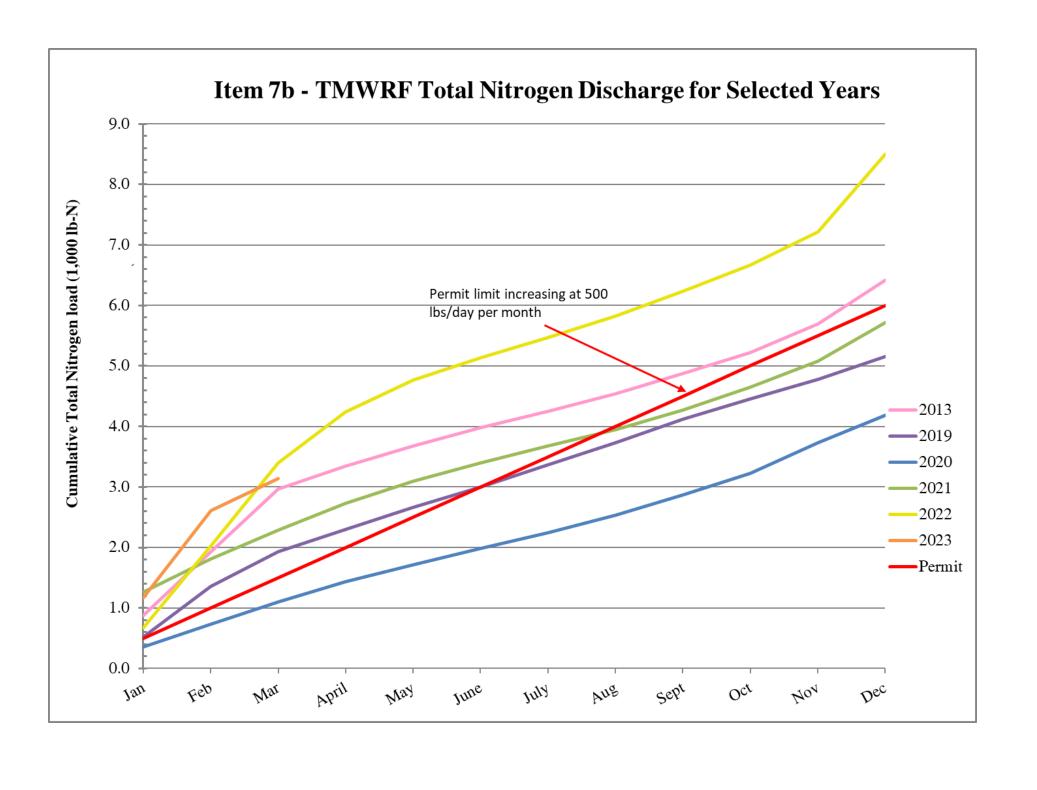
Process Area	Criteria	Jan-23	Feb-23	Mar-23
Primary	> 55% Solids Removed			
Aeration	OP < 0.2 mg/L			
Secondary	TSS < 30 mg/L, OP < 0.4 mg/L			
Nitrification	NH3 < 0.5 mg/L			
Denitrification	NO2+NO3 < 0.2 mg/L			
Plant Effluent	< 90% of Permitted Value			
Reuse	< 90% of Permitted Value			
Primary Sludge Thickening	TS > 2.5%			
Secondary Sludge Thickening	TS > 4%			
Digestion	VS < 75%			
Dewatering	Biosolids TS > 16%			
Gas Conditioning	H2S < 254 ppm			

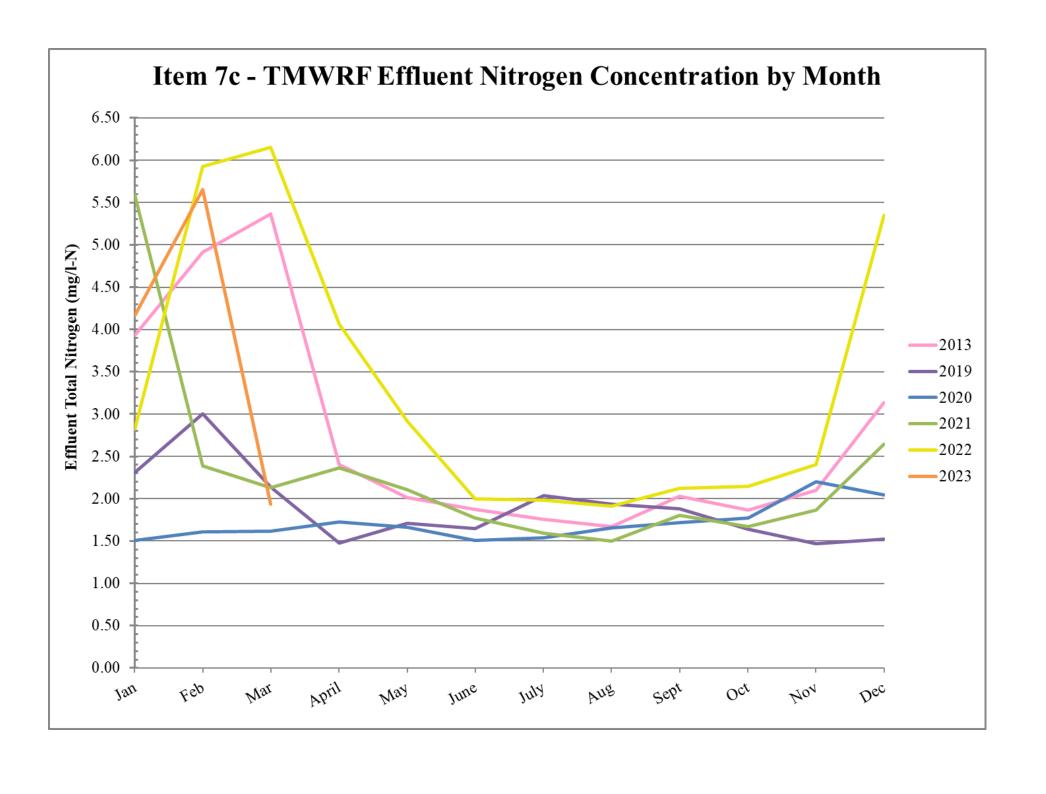
Item 6g – Status of Preventative Maintenance and Reactive Work Orders

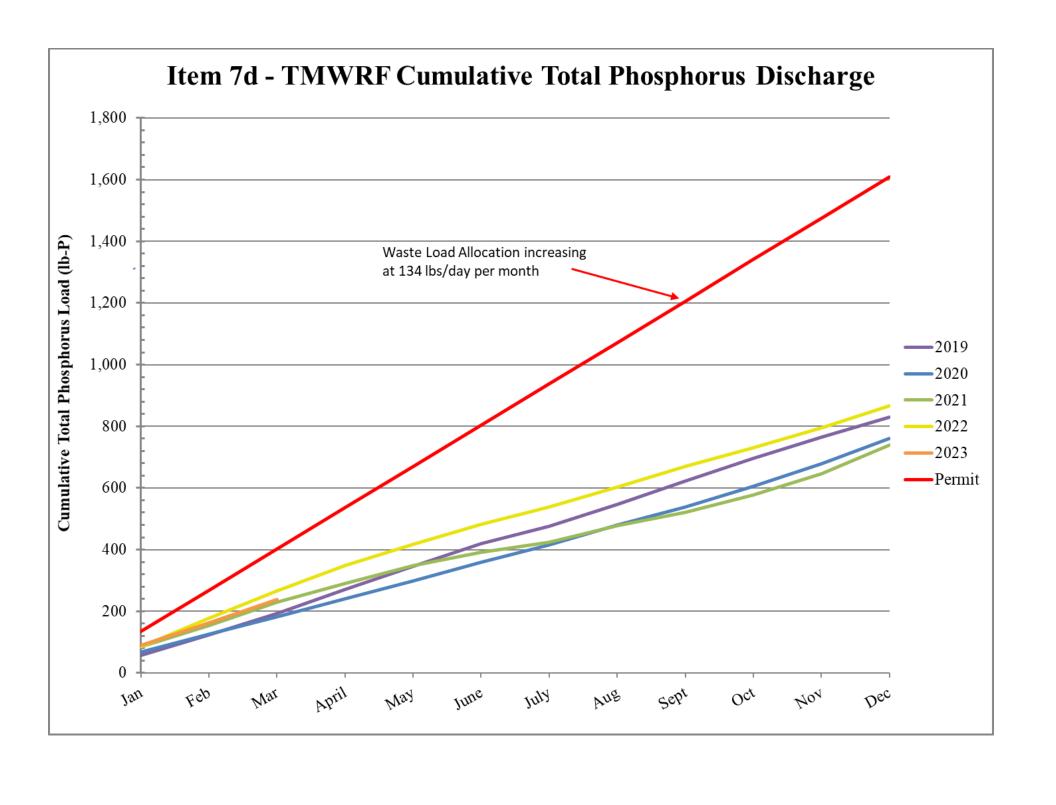


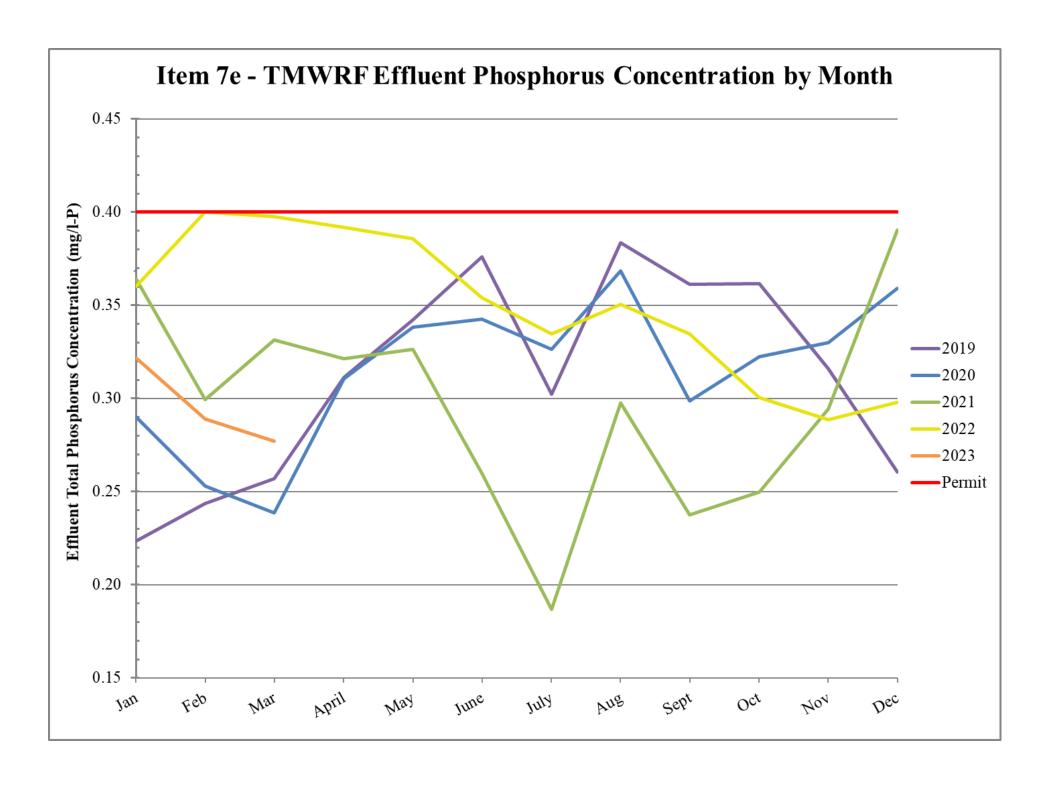


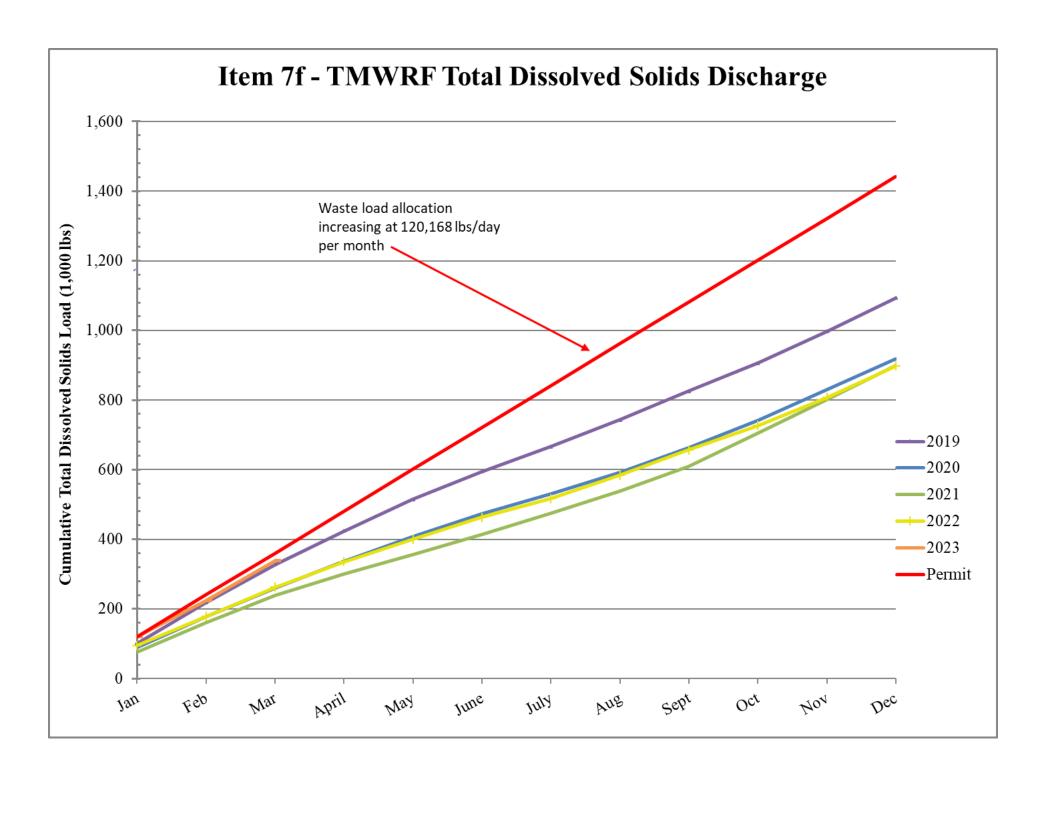


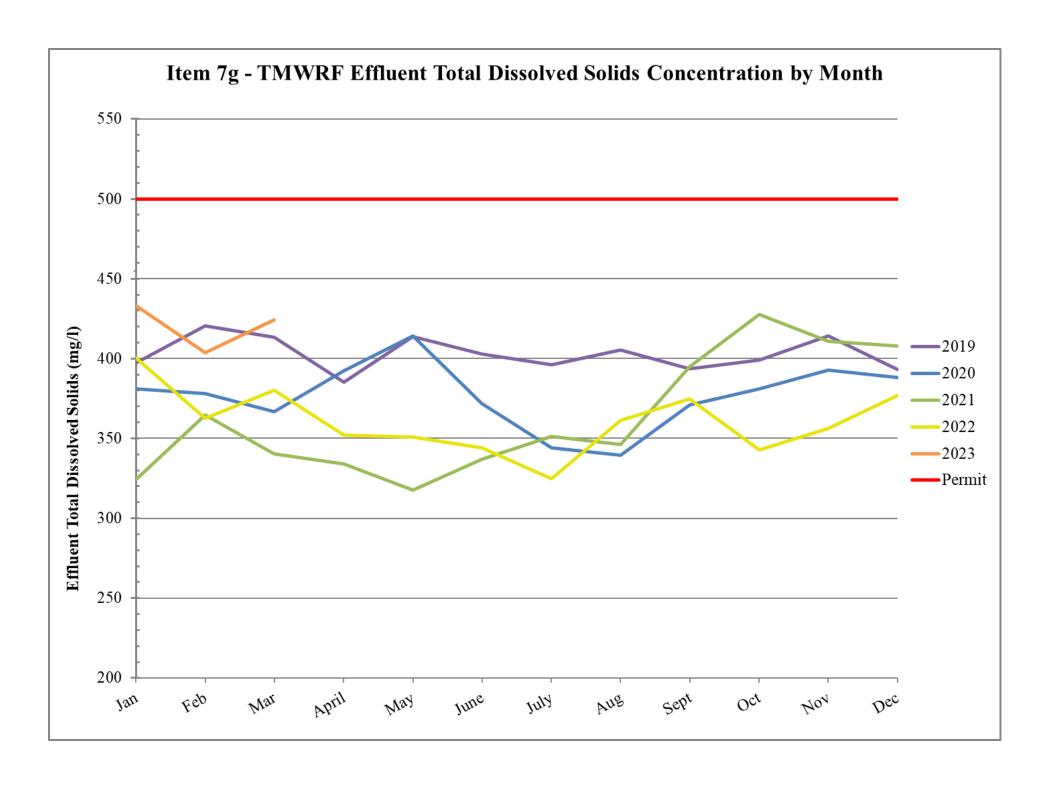












TO: Joint Coordinating Committee (JCC)

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

Department

DATE: May 3, 2023

RE: Update of the TMWRF Capital Improvement Program (CIP) progress by

the City of Reno TMWRF CIP Program Manager

TMWRF Capital Improvement Program Update Summary:

All but one of the approved projects are progressing on-time and within budget. One construction project has been delayed due to material shortages and supply chain issues.

TMWRF Capital Improvement Program Project Updates:

Sixteen engineering projects and evaluations are underway:

- Heat Loop Improvements Project: This project is progressing on time and within budget. Carollo completed a kick-off meeting and initial site visit, performed an existing pipe thickness and condition assessment, and is currently working on a draft Basis of Design Report for the recommended heat loop improvements.
- Digester #4 Membrane Cover: The design phase of this project is progressing on time and within budget. The 30% design review was held last month (April) and Brown & Caldwell staff are progressing the design to the 60% phase.
- Gas Conditioning System Improvements Design: This project is progressing ontime and within budget. The 30% design review was held late February and Stantec staff are progressing the design to the 60% phase.
- TWAS Near-Term Improvements Project: This project is progressing on time and within budget. This project is bidding right now and is forecasted to be encumbered before the end of this Fiscal Year.

- Nitrification Tower #1 Rehabilitation Project: This project is delayed until more information is gathered regarding the nitrification tower process upsets. No additional update at this time.
- Aeration Tank 1A Improvements: Carollo is under contract for phase 1 of the aeration tank rehabilitation projects and a kick-off meeting is anticipated this month (May).
- Electrical Systems and Expansion Study: The evaluation and pre-design phase of this project is progressing on time and within budget. AECOM has completed a draft preliminary design report, and TMWRF staff are currently reviewing the document. A review meeting is scheduled for this month (May).
- Fluidized Bed Reactor (FBR) and Nitrification Pump Station Evaluation: This project is progressing on time and within budget. Brown & Caldwell is analyzing the existing FBR infrastructure for potential process deficiencies and expansion alternatives.
- Dewatering Building Evaluation/Pre-Design: This project is progressing on time
 and within budget. Since February's JCC meeting, Jacobs staff has performed
 additional site visits to locate and discuss proposed utility alignments, resolve
 potential conflicts with existing utilities, and facilitate City of Reno and TMWRF
 staff discussion to compare different project delivery methods.
- Disinfection and Filtration Evaluation and Pre-Design: This project is progressing
 on time and within budget. Carollo provided their technical memoranda for the
 Filtration and Disinfection Facilities Condition and Seismic Assessment, and the
 Cloth Disk Filter Pilot Study. At the end of April, Carollo, City of Reno, and
 TMWRF staff collaborated at an onsite workshop to determine the appropriate
 design approach for the filter improvements component.
- Sewer Manhole (SSMH) 'E' Remediation Project: This project is progressing on time and within budget. Atkins has completed rehabilitation plans and specifications for Manhole 'E', and City of Reno staff are currently reviewing the files and providing comment. Construction is anticipated to begin after the beginning of the new fiscal year.
- Plantwide Sewer Manhole and Drain Facility Assessment Project: Atkins is under contract and a kick-off meeting is anticipated this month (May).
- Sodium Bisulfite Storage Tank Improvements: Brown & Caldwell are under contract and a kick-off meeting was held last month (April).

 Primary Sludge Screening & APD Valve/Piping Improvements: This project has been approved by City of Reno Council and will be seen by Sparks City Council in late May.

Two CIP construction projects are underway:

- MCC 16 and 17 Replacement Project: The contractor is procuring electrical equipment for the improvements. Most of the equipment has been acquired and construction is anticipated to start soon.
- Effluent Reuse Pump Station Project: This project was awarded last year with completion to occur in August of 2023. Treated effluent pumping began in March 2023. The project is progressing on-time and within budget.

No CIP pilot projects are underway.

TMWRF Capital Improvement Program Completed Projects Update:

No construction projects have been completed since the last JCC meeting.

No engineering projects have been completed since the last JCC meeting.

No piloting projects have been completed since the last JCC meeting.

Status of Capital Project Funding:

Total authorized funding for open projects:	\$20,435,061
Authorized funding encumbered (as of April 27, 2023)	\$13,030,742
% Total authorized funding encumbered:	64%
Encumbered funding expended (as of April 27, 2023):	\$7,597,625
% Total encumbered funding expended:	58%

Total authorized funding encumbered includes projects that were approved in previous fiscal years that are still open.

Discussion:

Staff is presenting this report to the Committee for information and discussion.

TO: Joint Coordinating Committee (JCC)

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

Department

DATE: May 3, 2023

RE: Presentation, discussion, and possible approval of staff recommendation to

proceed with the Construction Manager at Risk (CMAR) process for the

New Dewatering Facility Project.

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.

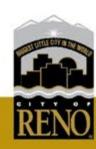
The scope of services with Jacobs included the evaluation of improvements to the existing dewatering building to expand capacity, consideration of a new dewatering building to increase capacity to full buildout, cost estimates for both options, process modeling, and evaluation of project delivery options. 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 will give a presentation to the Joint Coordinating Committee with regard to project delivery options and provide a recommendation for the new dewatering facility project based on the results of the workshops held with Jacobs.

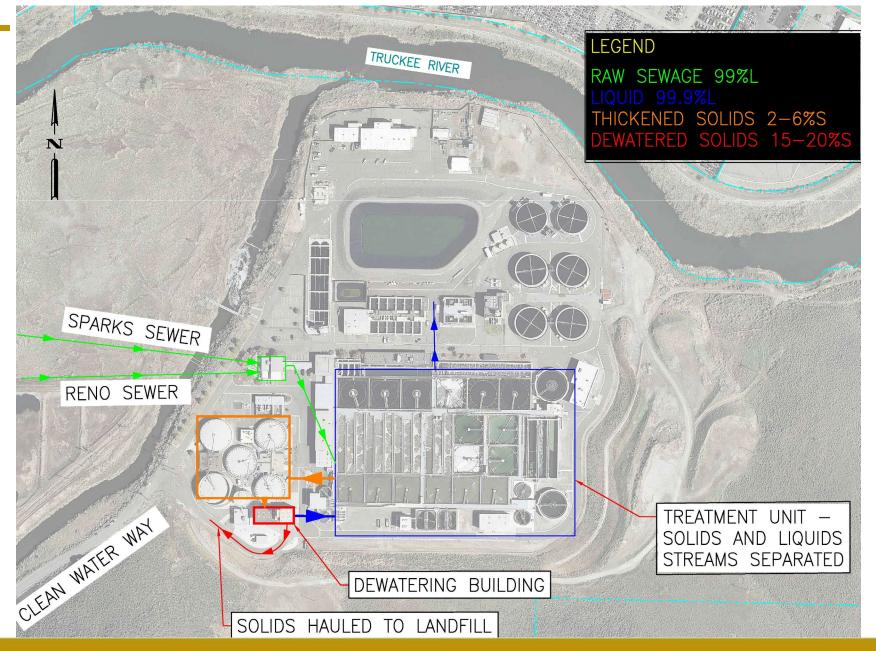


Agenda

- What is "Dewatering" at TMWRF?
- Previous JCC/Council Action
- Project Overview
- Project Status
- What is Design-Bid-Build(DBB)/Construction Manager at Risk (CMAR)?
- Technical Memorandum Results and Staff Recommendation



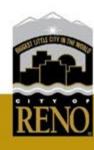
What is "Dewatering" at TMWRF?





Previous JCC/Council Action

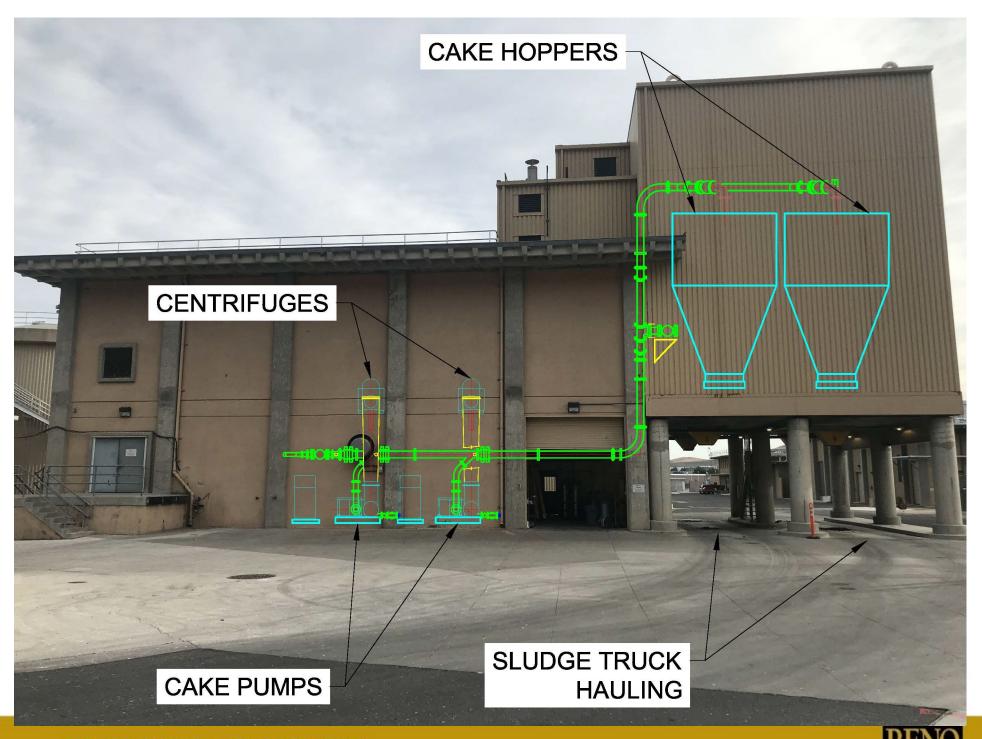
- March 19, 2020 Dewatering pilot assistance project awarded
- December 17, 2020 Dewatering process improvements design awarded
- Dewatering improvements seismic report completed
- January 5, 2022 RFQ Release for new dewatering building and alternatives
- March 3, 2022 Jacobs selected as consultant for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



Project Overview

Goals

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



TMWRF Dewatering Building CMAR

Project Status

- Pilot Testing & Evaluation
- Existing Dewatering
 Building Improvements
 Design
- Jacobs Pre-Design

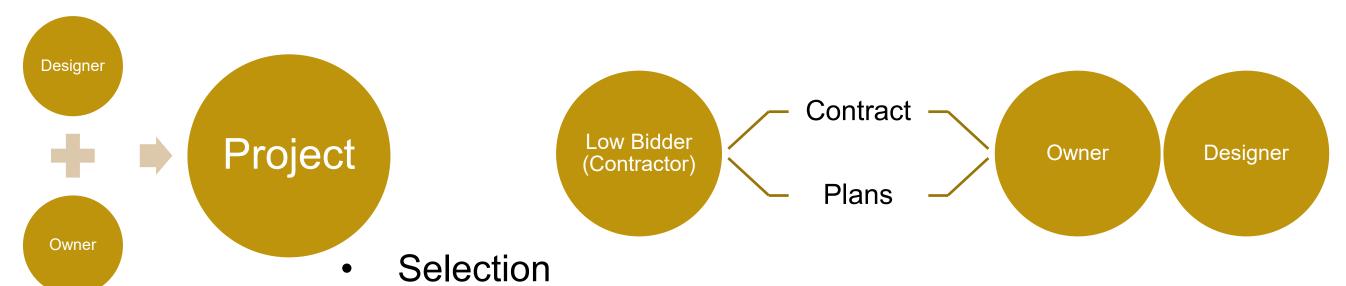


- 10% design
- Recommendation: New Building
- Detailed Design
- Construction



What is Design Bid Build (DBB)...

Design-Bid-Build



- 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



Project

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

- Selection
 - Qualifications based, <u>not</u> 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

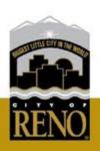
Jacobs

Dewatering Predesign Services

Technical Memorandum 7 – Project Delivery Methods
Truckee Meadows Water Reclamation Facility

Final

April 2023



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

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.

334-INFO (4636) | Reno.Gov | @City

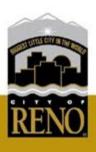
Additional Slides



CMAR Details

Selection

- Qualifications based, <u>not</u> 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

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

CMAR

Cons

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



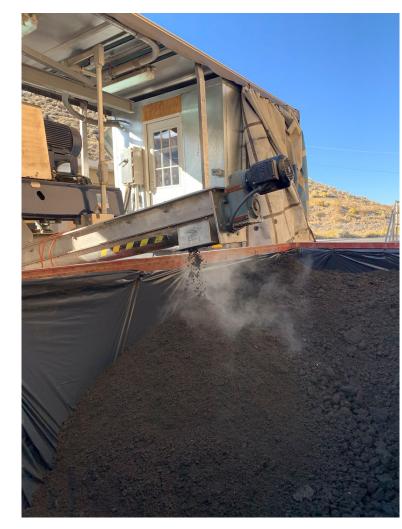
What is "Dewatering" at TMWRF?



Sludge



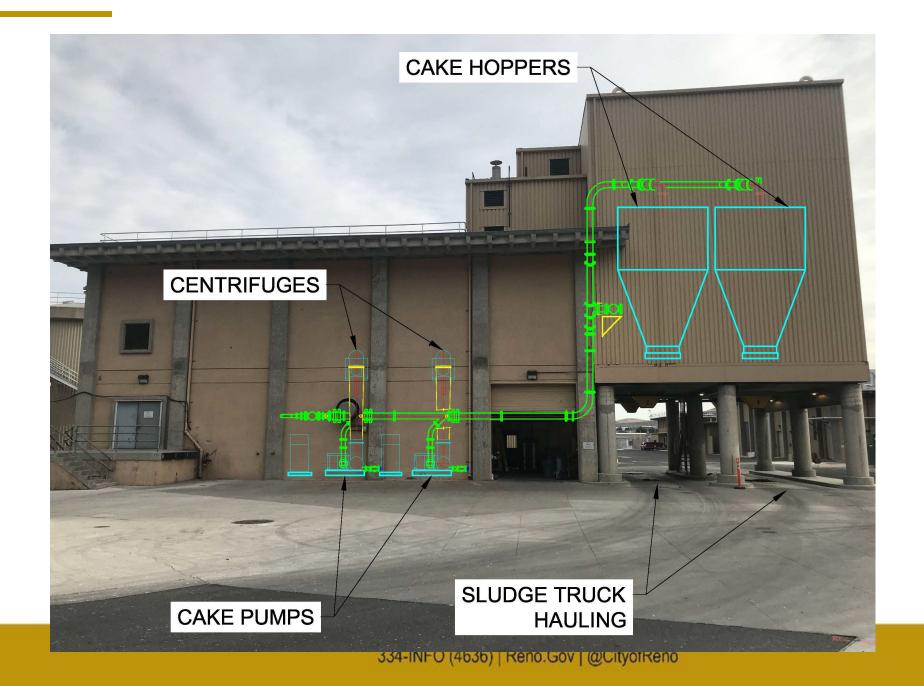
Centrate



Cake

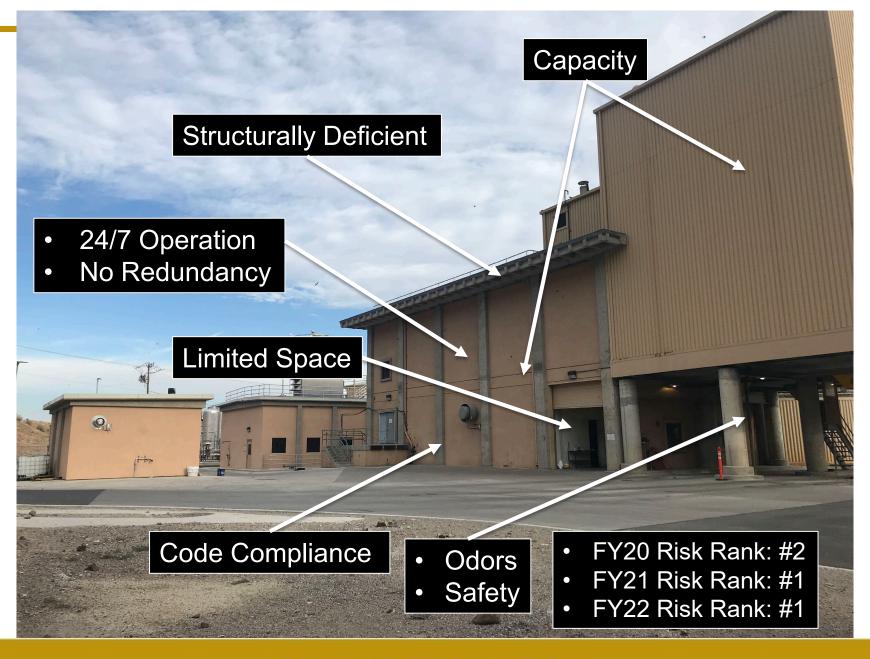


What is "Dewatering" at TMWRF?



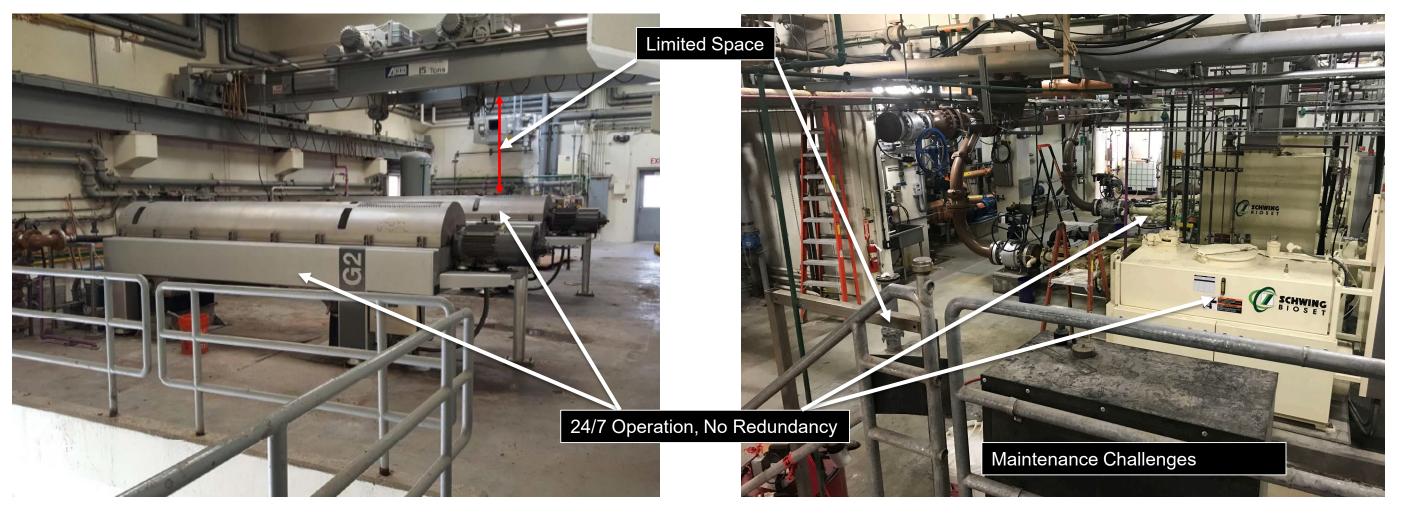


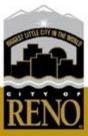
Why It's Recommended



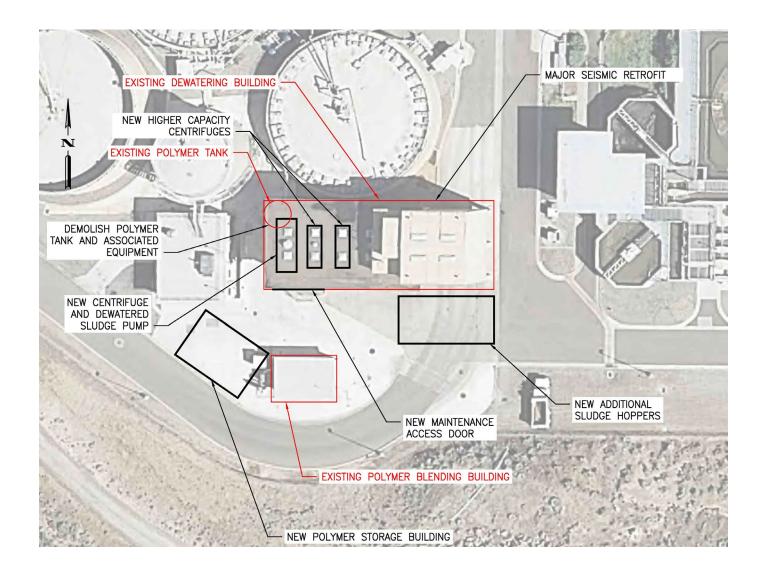


Constraints!





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

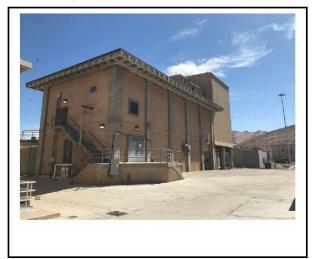
Supports strategic initiative of compliance with the Operating permit and Asset Management initiatives

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

