TAHOE-TRUCKEE SANITATION AGENCY

REGULAR BOARD MEETING

OCTOBER 18, 2023

TAHOE-TRUCKEE SANITATION AGENCY
A Public Agency
13720 Butterfield Drive
TRUCKEE, CALIFORNIA 96161
(530) 587-2525 • FAX (530) 587-5840
www.ttsa.ca.gov

BOARD OF DIRECTORS
REGULAR MEETING NOTICE AND AGENDA

Date: October 18, 2023
Time: 9:00 AM
Place: Board Room, Tahoe-Truckee Sanitation Agency, 13720 Butterfield Drive, Truckee, California

Members of the public will have the opportunity to directly address the Agency Board of Directors concerning any item listed on the Agenda below before or during consideration of that item. To better accommodate members of the public and staff, some Agenda items may be considered in an order different than listed below.

I. Call to Order, Roll Call, and Pledge of Allegiance

II. Public Comment Discussion items only, no action to be taken. Any person may address the Board at this time upon any subject that is within the jurisdiction of Tahoe-Truckee Sanitation Agency and that does not appear on the agenda. Any matter that requires action may be referred to staff for a report and action at a subsequent Board meeting. Please note there is a five (5) minute limit per person. In addition to or in lieu of public comment, any person may submit a written statement concerning Agency business to be included in the record of proceedings and filed with the meeting minutes. Any such statement must be provided to the recording secretary at the meeting.

III. Professional Achievements, Awards, and Anniversaries acknowledgement of staff for professional achievements and other awards.

IV. Consent Agenda Consent Agenda items are routine items that may be approved without discussion. If an item requires discussion, it may be removed from the Consent Agenda prior to action.

1. Approval of the minutes of the regular Board meeting on September 20, 2023.
2. Ratify payment of General Fund Warrants.
3. Ratify approval of Financial Statements.

V. Regular Agenda

1. Approval of Updated Classification Descriptions
2. Presentation and Discussion of Agency Sewer Connection Fee Study by HDR Engineering, Inc.
3. Approval to award the 2023 Sodium Hypochlorite Foundation Project.
4. Discussion on engaging the Regional Water Quality Control Board to update the Agency permit.

VI. Management Team Reports

1. Department Reports.
2. General Manager Report.

VII. Board of Director Comment Opportunity for directors to ask questions for clarification, make brief announcements and reports, provide information to staff, request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda.

VIII. Adjournment

Posted and Mailed, 10/12/2023.

Roshelle Chavez
Executive Assistant/Board Clerk

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, then please contact Roshelle Chavez at 530-587-2525, 530-587-5840 (fax), or email rchavez@ttsa.ca.gov. Requests must be made as early as possible, and at least one-full business day before the start of the meeting.

Documents and material relating to an open session agenda item that are provided to the T-TSA Board of Directors less than 72 hours prior to a regular meeting will be available for public inspection and copying at the Agency's office located at 13720 Butterfield Drive, Truckee, CA.

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: I
Subject: Call to Order, Roll Call, and Pledge of Allegiance.

Background

Call to Order, Roll Call, and Pledge of Allegiance.

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: II
Subject: Public Comment.

Background

Discussion items only, no action to be taken. Any person may address the Board at this time upon any subject that is within the jurisdiction of Tahoe Truckee Sanitation Agency and that does not appear on the agenda. Any matter that requires action may be referred to staff for a report and action at a subsequent Board meeting. There is a five (5) minute limit per person.

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Vicky Lufrano, Human Resources Administrator
Item: III
Subject: Professional Achievements, Awards and Anniversaries.

Background
Acknowledgement of staff for professional achievements, awards and anniversaries received the previous calendar month or quarter.

Achievements and Promotions

- Scott Fleming – Promoted to Senior Engineer
- Dan Underwood – Received Wastewater Treatment Plant Operator III certification and promoted to Operator III

Awards - Third Quarter Safety Suggestion Awards

Jeff Navarrete

- Install an anchor point for a Self-Retracting Lifeline above the access hatch in Building 32 to allow for safe movement around the hatch when working. Audit the entire plant for similar installation requirements.
- Construct a new compliant guardrail system for the second and third floors of building 71 to replace the inadequate system that is currently in place around the hatches.

Dean Haines

- Purchase a lifting magnet for heavy steel items that are unsafe to lift and position by hand (i.e., steel plates, rod, pipes).

Jesus "Chuy" Zarate

- Order a new longer shoring tool for the safe installation and removal of hydraulic cylinders without having to enter the excavation, thus, removing the potential risk of being caught in a cave-in.

Michael Ramos

- Add padding to the electrical junction box above the ladder for Primary Clarifier #4 to eliminate the head injury hazard. Audit the entire plant for similar hazards.

Trevor Shamblin

- Remove the boulders or fill in the area around the 2-water vault to the level of the concrete to eliminate the associated fall and trip hazard as part of the upcoming parking and landscaping improvements project.

Fiscal Impact
Recipients of a Safety Suggestion Award receive 2 hours of administrative leave for each safety suggestion approved by the safety committee. Recipients of promotions receive salary increases.

Attachments
None.

Recommendation
No action required.

Review Tracking

Submitted By: _____
Vicky Lufrano
Human Resources Administrator

Approved By: _____
Richard Pallante
General Manager

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Roshelle Chavez, Executive Assistant/Board Clerk
Item: IV-1
Subject: Approval of the minutes of the Regular Board meeting on September 20, 2023.

Background
Draft minutes from previous meeting(s) held are presented to the Board of Directors for review and approval.

Fiscal Impact
None.

Attachments
Minutes of the Regular Board meeting on September 20, 2023.

Recommendation
Management and staff recommend approval of the minutes of the Regular Board meeting on September 20, 2023.

Review Tracking

Submitted By: _____
Roshelle Chavez
Executive Assistant/Board Clerk

Approved By: _____
Richard Pallante
General Manager

BOARD OF DIRECTORS
REGULAR MEETING MINUTES

September 20, 2023

I. Call to Order:

President Wilkins called the regular meeting of the Tahoe-Truckee Sanitation Agency Board of Directors to order at 9:00 a.m. Roll call and Pledge of Allegiance followed.

Directors Present:
Dan Wilkins, TCPUD
Blake Tresan, TSD
Scott Wilson, NTPUD
Dale Cox, OVPSD
David Smelser, ASCWD

Staff Present:
Richard Pallante, General Manager
Vicky Lufrano, Human Resources Administrator
Roshelle Chavez, Executive Assistant/Board Clerk
Michael Peak, Operations Manager
Paul Shouse, Maintenance Manager
Crystal Sublet, Finance & Administrative Manager
Aaron Carlsson, Interim Engineering Manager
Andrew Ramos, Agency Counsel
Michelle Mackey, Administrative Department
Dawn Davis, Administrative Department
Kayle Ohle, Administrative Department
Mike Smith, Safety Officer
Scott Fleming, Engineering Department
Trevor Shamblin, Engineering Department
Ryan Schultz, Maintenance Department
Jeff Navarrete, Maintenance Department
Jason Hays, Operations Department
Kristin Davis, Operations Department
Brandon Dimond, Operations Department
Brad Beatty, Operations Department

Public Present:
Angelina Henson, Public

II. Public Comment

Public comment was received by Angelina Henson (Public) and Mike Smith (Agency staff).

No action was taken by the Board.

III. Professional Achievements, Awards, and Anniversaries

Ms. Lufrano acknowledged Agency staff, Ryan Schultz, who was promoted to E&I Supervisor, and Kayle Ohle, who was promoted to Accounting Technician. Schultz and Ohle were promoted in August.

Schultz's department manager Paul Shouse congratulated him on his promotion. The Board acknowledged and congratulated staff for their achievements.

IV. Consent Agenda

1. Approval of the minutes of the Special Board meeting on July 19, 2023.
2. Ratify payment of General Fund Warrants.
3. Ratify approval of Financial Statements.

MOTION by Director Tresan **SECOND** by Director Cox to approve the Consent Agenda; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

V. Regular Agenda

1. Appointment of Agency Board President and Vice President

Director Smelser chose to pass on the regular rotation in the role of Vice President of the Board of Directors, which advances Director Wilson to serve in his place.

MOTION by Director Cox **SECOND** by Director Smelser to appoint Director Tresan as Board President and Director Wilson as Vice President ; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

2. Approval of the Classification and Compensation Study Based on Review of Proposals.

Agency staff, Jeff Navarrete, provided public comment. No action was taken by the Board.

MOTION by Director Tresan **SECOND** by Director Wilson to approve the award of the Classification and Compensation Study to Koff & Associates; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

3. Consider Approving Step Increase to General Manager Salary.

Director Cox thanked Mr. Pallante for what he has brought to the Agency. President Wilkins, agreed and said to keep up the good work.

MOTION by Director Cox **SECOND** by Director Smelser for approval of Step Increase to General Manager Salary; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

4. Approval of Updated and New Classification Descriptions.

Ms. Lufrano presented a packet of updated and new job classification descriptions to the Board of Directors. She provided an updated staff report and packet of job classification descriptions that were redlined to show changes that were being implemented. There is a proposed new position of "Information Technology Supervisor" that will oversee Information Technology Specialists and CMMS/GIS Technician.

Additionally, there is a proposed new position/reclassification of "Technical Services Department Manager" that will replace/reclassify the Engineering Department Manager and will oversee Engineering and the Laboratory. Lastly, there will be no change to the "Senior Engineer" salary as that position will remain exempt.

MOTION by Director Cox **SECOND** by Director Smelser for approval of the Updated and New Classification Descriptions as presented; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

5. Approval of Updated Salary Schedule.

Ms. Lufrano presented the updated salary schedule to the Board of Directors. This update includes the new positions discussed in item V-4 of Information Technology Supervisor and Technical Services Manager. Ms. Lufrano thanked Ms. Mackey and Ms. Davis for their assistance in getting the work done on the salary schedule.

MOTION by Director Tresan **SECOND** by Director Wilson for approval of the Updated Salary Schedule; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

6. Approval of Updated Organizational Chart.

Ms. Lufrano presented the updated organizational chart to the Board of Directors. She explained that the update was made in order to accurately reflect and account for full-time equivalent (FTE) staffing, and the number of all (old/new) approved FTE positions.

With a recent retirement of the Engineering Department Manager, a department reorganization is proposed. The department will now be the Technical Services Department and consist of engineering and laboratory staff. For the new fiscal year, a few departments requested new staff. This includes Information Technology Supervisor, and an additional staff member in the Finance & Administrative department.

Ms. Lufrano credited Agency staff Mr. Scott Fleming for his assistance with the formatting of the updated organizational chart.

MOTION by Director Cox **SECOND** by Director Wilson for approval of the Updated Organizational Chart; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

7. Approval of Ordinance No. 3-2023 Repealing Ordinance No. 3-2015.

MOTION by Director Cox **SECOND** by Director Wilson to approve Ordinance No. 3-2023 Repealing Ordinance No. 3-2015; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

8. Approval of Agency Purchasing Policy Resolution No. 14-2023.

Mr. Pallante returned to the Board of Directors with the final approval of Agency Purchasing Policy Resolution No. 14-2023. At the August meeting the Board stated they would approve higher procurement approval limits. As such, the limits were updated to a reasonable amount.

Section 6b. Procurement value between $5,000-$50,000 (five thousand and fifty thousand dollars), are not required to follow a formal bid process. Section 6c. Procurement greater than $50,000 (fifty thousand dollars), must follow a formal bid process. All of the specific details can be found within Resolution No. 14-2023.

MOTION by Director Smelser **SECOND** by Director Wilson for approval of Agency Purchasing Policy Resolution No. 14-2023 as proposed; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

9. Approval of Ordinance No. 4-2023 Prohibiting After Hours Use of Agency Property.

MOTION by Director Cox **SECOND** by Director Tresan to approve Resolution No. 4-2023 Prohibiting After Hours Use of Agency Property; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

10. Consider Approving Resolution Declaring Real Property Subject to Pending 2019 Land Exchange with Truckee Tahoe Airport District to be Surplus Exempt Land.

MOTION by Director Wilson **SECOND** by Director Smelser to approve Resolution No. 15-2023 Declaring Real Property Subject to Pending 2019 Land Exchange with Truckee Tahoe Airport District to be Surplus Exempt Land; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

11. Discussion and Approval to Receive and File Recommended Changes to the Annual Financial Audit for Fiscal Year 2021-2022.

Ms. Sublet addressed the Board of Directors and explained that the Agency Annual Financial Audit for Fiscal year 2021-2022 that was approved at the 4/19/23 Board of Directors meeting, was later identified to have the incorrect year on the Independent Auditor's Report. Ms. Sublet continued that additionally, the Fair Market Value unrealized loss on L.A.I.F was incorrectly grouped with the Interest Expense grouping and should have been in the Investment Income (Loss) grouping.

There is no impact to net position in the Income Statement, nor is there any impact to the Independent Auditor's report. The Board of Directors reviewed the Auditors corrections and had follow up questions and discussion.

MOTION by Director Wilson **SECOND** by Director Tresan to approve to Receive and File Recommended Changes to the Annual Financial Audit for Fiscal Year 2021-2022; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

12. Approval of 2023 Roof Repair Project Change Order No. 1 with CentiMark Corporation.

MOTION by Director Cox **SECOND** by Director Smelser to approve the 2023 Roof Repair Project Change Order No. 1 with CentiMark Corporation; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

13. Approval to Award Procurement of Three (3) Chemical Storage Tanks.

MOTION by Director Tresan **SECOND** by Director Cox to Award Procurement of Three (3) Chemical Storage Tanks to MISCO Water to include (1) their bid price of $205,915.00, and (2) a change order to include local Nevada County Sales Tax for $16,987.99; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

14. Discussion and Review of 2024 Administration Parking & Landscaping Improvements project.

At the August Board of Directors meeting, an inquiry was made by a director to possibly add additional parking spaces to the proposed layout. Mr. Carlsson provided an update to the Board of Directors that transitioned the parking lot design into a rectangular shape allowing for twenty three (23) additional parking spaces, and enhanced snow removal efficiency.

No action was taken by the Board.

The Board took a short recess from 10:33 AM to 10:39 AM.

15. Discussion and Review of Agency “No Trespassing” and “No Parking” Signage project.

Mr. Carlsson provided a review of proposed Agency “No Trespassing” and “No Parking” signage to the Board of Directors. Signs will be strategically placed at all roads and trails that lead into the property owned by the Agency, and on the fence line of the wastewater treatment plant and retention ponds. The placement and design of the signs factor in all applicable legal stipulations and local ordinances.

No action was taken by the Board.

16. Approval of Annual Employee Appreciation Luncheon.

MOTION by Director Cox **SECOND** by Director Wilson for approval of the Annual Employee Appreciation Luncheon; unanimously approved.

The Board approved the motion by the following vote:

AYES:	Directors Tresan, Wilson, Cox, Smelser, and President Wilkins.
NOES:	None.
ABSENT:	None.
ABSTAIN:	None.

Motion passed.

17. Discussion of Board Calendar through February 2024.

Mr. Pallante and Ms. Chavez discussed the availability of the Board of Directors through the winter months in order to prepare for upcoming events and meetings.

No action was taken by the Board.

VI. Management Team Reports

1. Department Reports

Mr. Peak provided an update on the operations department.

Mr. Shouse provided an update on the maintenance department.

Mr. Carlsson provided an update on the engineering department.

Ms. Sublet provided an update on the administration department.

No action was taken by the Board.

2. General Manager Report

Mr. Pallante provided an update on the status of various ongoing projects, none of which required action by the Board.

VII. Board of Directors Comment

Director Cox was concerned with staff public comment regarding Agency Health Benefits coverage and inquired when the Board would be readdressing the issue of staff coverage. President Wilkins stated that sometimes it is the nature of the insurance industry that one year they do not have a contract for services with one hospital and the following they do. However, it was decided that the Board would revisit Health Benefits coverage after the completion of the Class and Comp study so it can all be taken into account for employees as they requested.

Director Tresan inquired if the Health Benefits discussion was available to staff. Director Wilson inquired on the status of some of the CIP Projects that appeared to be from previous years.

Mr. Pallante explained that with one senior engineer it can get more difficult to funnel multiple projects out at once, especially if they are on a larger scale. Director Tresan explained that projects may be given names during their design years and are not given approval until a year or more after. That does not necessarily mean they were pushed back on the budget schedules.

VIII. Closed Session

1. Closed session for public employee discipline/dismissal/release (Gov. Code §54957).
2. Closed session for consultation with Agency safety staff and counsel concerning security of public buildings and essential public services (Gov. Code §54957).

IX. Closed Session Report

There was no reportable action from Closed Session.

X. Adjournment

There being no further business, the meeting was adjourned at 12:25 P.M.

By:

_____
Richard Pallante, General Manager

Date:
Approved: _____

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Crystal Sublet, Finance and Administrative Manager
Item: IV-2
Subject: Ratify of payment of General Fund Warrants.

Background

The report of General Fund Warrants is attached as prepared by Agency accounting software. It should be noted, payroll summaries are excluded from the General Fund Warrants and are incorporated into the Financial Statements.

The Finance Committee reviewed and approved payment of the General Fund Warrants at its recent meeting.

Fiscal Impact

Decrease in Agency funds per the warrant amounts.

Attachments

Report of General Fund Warrants.

Recommendation

Management and staff recommend the Board Directors ratify payment of the General Fund Warrants.

Review Tracking

Submitted By: _____
Crystal Sublet
Finance and Administrative Manager

Approved By: _____
Richard Pallante
General Manager

Payee	Check Number	Check Issue Date	Description	Amount
AIRGAS USA LLC				
	90193	09/11/2023	OXYGEN REGULATOR	386.55
Total AIRGAS USA LLC:				386.55
ALPHA ANALYTICAL INC				
	90194	09/11/2023	LAB TESTING AT APLPHA ANALYTICAL	2,090.00
	90251	09/21/2023	ANNUAL WELLS	1,255.00
Total ALPHA ANALYTICAL INC:				3,345.00
ANNIE'S CLEANING SERVICE				
	89998	09/19/2023	JUNE 2023 JANITORIAL SVC	3,813.33- V
	90195	09/11/2023	AUG 23 JANITORIAL SERVICE	4,766.67
	90252	09/21/2023	JUNE 2023 JANITORIAL SVC	3,813.33
Total ANNIE'S CLEANING SERVICE:				4,766.67
ARAMARK WORK APPAREL				
	90196	09/11/2023	MATS, TOWELS, SERVICE	245.99
	90196	09/11/2023	MAT, TOWELS, SERVICE	16.26
	90196	09/11/2023	MAT, TOWELS, SERVICE	14.00
	90253	09/21/2023	MATS	245.99
	90253	09/21/2023	TOWELS	16.26
	90253	09/21/2023	SVC CHARGE	14.00
Total ARAMARK WORK APPAREL:				552.50
AUTOGLASS EXPRESS TRUCKEE				
	90197	09/11/2023	FUEL FILTER	64.93
	90197	09/11/2023	FRONT HOOD (GREEN)	194.84
	90197	09/11/2023	BRAKE PEDAL RETURN SPRING	10.81
	90197	09/11/2023	BRAKE PEDAL PIN BUSHING	21.63
	90197	09/11/2023	Brake Pedal Cotter Pin	1.40
	90197	09/11/2023	BRAKE PEDAL PIN	19.47
	90197	09/11/2023	OEM CARB	595.36
	90197	09/11/2023	Manifold Gasket	7.57
	90197	09/11/2023	Fuel Transfer Pump	324.74
	90197	09/11/2023	SHIPPING	189.44
	90254	09/21/2023	AIR FILTER	27.05
Total AUTOGLASS EXPRESS TRUCKEE:				1,457.24
BRADLEY BEATTIE				
	90255	09/21/2023	REIMBURSEMENT	155.00
Total BRADLEY BEATTIE:				155.00
CA INDUSTRIAL RUBBER CO.				
	90198	09/11/2023	GASKET MATERIAL	401.61
	90198	09/11/2023	GASKET MATERIAL	454.65
Total CA INDUSTRIAL RUBBER CO.:				856.26
CASELLE				
	90199	09/11/2023	OCT 23 MONTHLY SUPPORT & MAINT	3,631.00

Payee	Check Number	Check Issue Date	Description	Amount
Total CASELLE:				3,631.00
CASHMAN EQUIPMENT CO.				
	90200	09/11/2023	SODIUM HYPOCHLORITE TANK RENTALS	3,675.32
	90200	09/11/2023	SODIUM HYPOCHLORITE TANK RENTAL	3,758.57
	90256	09/21/2023	QTRLY BILL FOR PREVENTATIVE MAINTENANCE	3,228.00
Total CASHMAN EQUIPMENT CO.:				10,661.89
CDW-G				
	90201	09/11/2023	WIRELESS HEADSET	127.45
	90201	09/11/2023	WIRELESS HEADSETS	254.91
	90201	09/11/2023	TONER	156.83
	90201	09/11/2023	TONER	134.04
	90201	09/11/2023	TONER	78.42
	90201	09/11/2023	COMPUTER MOUSE	108.24
	90201	09/11/2023	TONER	255.58
Total CDW-G:				1,115.47
CENTIMARK CORPORATION				
	90257	09/21/2023	PPE#1/RETENTION	56,648.32
	90257	09/21/2023	RETENTION #1 2023 ROOF REPAIR PROJECT	2,832.42-
	90257	09/21/2023	PPE#2 2023 ROOF REPAIR PROJECT	387,186.56
	90257	09/21/2023	RETENTION#2 2023 ROOF REPAIR PROJECT	19,359.32-
Total CENTIMARK CORPORATION:				421,643.14
CENTRISYS CENTRIFUGE SYSTEMS				
	90202	09/11/2023	PRESSURE TRANSMITTER	692.94
Total CENTRISYS CENTRIFUGE SYSTEMS:				692.94
CHARD SNYDER & ASSOCIATES				
	9292301	09/29/2023	HRA REPAYMENT	949.20-
	9292301	09/29/2023	HRA	5.00
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA	48.71
	9292301	09/29/2023	HRA	20.00
	9292301	09/29/2023	HRA	55.00
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA	6,536.00
	9292301	09/29/2023	HRA	165.00
	9292301	09/29/2023	HRA	3.11
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	30.70
	9292301	09/29/2023	HRA2	25.00
	9292301	09/29/2023	HRA	27.76
	9292301	09/29/2023	HRA2	20.00
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA2	483.97
	9292301	09/29/2023	HRA	40.98
	9292301	09/29/2023	HRA	29.17
	9292301	09/29/2023	HRA	103.88

Payee	Check Number	Check Issue Date	Description	Amount
	9292301	09/29/2023	HRA	108.02
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	224.99
	9292301	09/29/2023	HRA	40.00
	9292301	09/29/2023	HRA	20.00
	9292301	09/29/2023	HRA	3.00
	9292301	09/29/2023	HRA	14.95
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA REFUND	35.00-
	9292301	09/29/2023	HRA	166.00
	9292301	09/29/2023	HRA	49.83
	9292301	09/29/2023	HRA	23.28
	9292301	09/29/2023	HRA	6.37
	9292301	09/29/2023	HRA	96.13
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	.51
	9292301	09/29/2023	HRA	5.00
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	126.62
	9292301	09/29/2023	HRA	44.18
	9292301	09/29/2023	HRA	35.00
	9292301	09/29/2023	HRA	45.00
	9292301	09/29/2023	HRA	20.00
	9292301	09/29/2023	HRA	35.89
	9292301	09/29/2023	HRA	75.00
	9292301	09/29/2023	HRA	160.61
	9292301	09/29/2023	HRA REFUND	14.84-
	9292301	09/29/2023	HRA	10.36
	9292301	09/29/2023	HRA	494.66
	9292301	09/29/2023	HRA	10.00
	9292301	09/29/2023	HRA	15.00
	9292301	09/29/2023	HRA	160.00
	9292301	09/29/2023	HRA3 VISION	259.50
	9292301	09/29/2023	HRA	491.38
	9292301	09/29/2023	HRA3 VISION	385.00
	9292301	09/29/2023	HRA	45.17
	9292301	09/29/2023	DCA	192.31
	9292301	09/29/2023	HRA	1,093.20
	9292301	09/29/2023	HRA	6.80
	9292301	09/29/2023	HRA	887.42
	9292301	09/29/2023	HRA3 VISION	135.00
	9292301	09/29/2023	HRA	22.80
	9292301	09/29/2023	HRA2	235.00
	9292301	09/29/2023	HRA	1,875.00
	9292301	09/29/2023	HRA	49.99
	9292301	09/29/2023	HRA	735.48
	9292301	09/29/2023	HRA2	169.74
	9292301	09/29/2023	HRA	879.28
	9292301	09/29/2023	DCA	192.31
	9292301	09/29/2023	HRA3 VISION	300.94
	9292301	09/29/2023	DCA	1,372.00
	9292301	09/29/2023	HRA3 VISION	502.80
	9292301	09/29/2023	HRA	279.42
	9292301	09/29/2023	HRA	997.09

Payee	Check Number	Check Issue Date	Description	Amount
	9292301	09/29/2023	HRA3 VISION	416.00
	9292301	09/29/2023	HRA	765.80
Total CHARD SNYDER & ASSOCIATES:				21,205.07
COKER PUMP & EQUIPMENT CO.				
	90203	09/11/2023	MECHANICAL SEAL	138.56
	90203	09/11/2023	BEARING 5-026-0	97.43
	90203	09/11/2023	SPACER SLEEVE	90.93
	90203	09/11/2023	BEARING CAP	68.85
	90203	09/11/2023	SHAFT RETAINING RING 5-086-0	4.33
	90203	09/11/2023	SHAFT SLEEVE	67.12
	90203	09/11/2023	CASING WEAR RING	84.43
	90203	09/11/2023	STUFF BOX WEAR RING	145.05
	90203	09/11/2023	IMPELLER WASHER	5.41
	90203	09/11/2023	IMPELLER NUT	4.33
	90203	09/11/2023	CASING O-RING	10.82
	90203	09/11/2023	IMPELLER	1,152.29
Total COKER PUMP & EQUIPMENT CO.:				1,869.55
COLUMN SOFTWARE PBC				
	90204	09/11/2023	AD FOR SODIUM HYPO TANKS	362.43
	90258	09/21/2023	AD FOR SODIUM HYPOCHLORITE FOUNDATION PROJECT	692.56
Total COLUMN SOFTWARE PBC:				1,054.99
CORELOGIC INFORMATION SOLUTIONS, IN				
	90259	09/21/2023	MONTHLY BILLING FOR AUGUST	521.67
Total CORELOGIC INFORMATION SOLUTIONS, IN:				521.67
CWEA				
	90205	09/11/2023	MEMBERSHIP RENEWAL	221.00
	90205	09/11/2023	CERTIFICATE RENEWAL	113.00
	90205	09/11/2023	MEMBERSHIP RENEWAL	221.00
	90260	09/21/2023	MEMBERSHIP	221.00
	90260	09/21/2023	CERTIFICATION	108.00
Total CWEA:				884.00
DELL COMPUTER CORP. C/O DELL USA L.				
	90206	09/11/2023	ADOBE ACROBAT STANDARD 2020	2,205.00
	90206	09/11/2023	DOCKING STATIONS	681.12
	90206	09/11/2023	LAPTOPS	5,620.26
	90261	09/21/2023	2 LAPTOPS	4,158.49
	90261	09/21/2023	2 LAPTOP DOCK	667.94
Total DELL COMPUTER CORP. C/O DELL USA L.:				13,332.81
DURAWEAR				
	90262	09/21/2023	SAFETY EYEWEAR	1,594.16
Total DURAWEAR:				1,594.16
E&M ELECTRIC				
	90207	09/11/2023	PROFINET 12 MODULES S7-300	527.71

Payee	Check Number	Check Issue Date	Description	Amount
Total E&M ELECTRIC:				527.71
FERGUSON ENTERPRISES LLC #3325				
	90263	09/21/2023	2 1/2- 4 NPT DIE HS F/SS	324.32
Total FERGUSON ENTERPRISES LLC #3325:				324.32
FISHER SCIENTIFIC COMPANY				
	90208	09/11/2023	CABINETS	2,249.48
	90208	09/11/2023	FILTER CAPS	292.23
	90208	09/11/2023	VIALS	1,177.57
	90264	09/21/2023	ANALYTICAL COLUMN	2,052.03
	90264	09/21/2023	GUARD COLUMN IONPAX AG9-HC	714.14
	90264	09/21/2023	SOY BATH	349.86
	90264	09/21/2023	GLASS JARS	224.54
	90264	09/21/2023	CARTRIDGES	851.31
	90264	09/21/2023	GLASS JARS	441.89
	90264	09/21/2023	CARTRIDGE SET	831.60
Total FISHER SCIENTIFIC COMPANY:				9,184.65
FRANCISCAN LAKESIDE LODGE				
	90209	09/11/2023	CONNECTION FEE REFUND	500.00
Total FRANCISCAN LAKESIDE LODGE:				500.00
GLOBAL INDUSTRIAL				
	90265	09/21/2023	BRADY LABEL PRINTER	1,900.87
	90265	09/21/2023	VINYL LABELS	314.95
	90265	09/21/2023	VINYL LABELS	338.76
	90265	09/21/2023	SHIPPING	50.87
Total GLOBAL INDUSTRIAL:				2,605.45
GRAINGER INC., W.W.				
	90210	09/11/2023	PIPE INSULATION TAPE	86.65
	90210	09/11/2023	GLASS CLEANER	35.40
	90210	09/11/2023	PAPER TOWELS	107.87
	90210	09/11/2023	PAPER TOWELS	195.64
	90210	09/11/2023	CLEAR SAFETY GLASSES	355.28
	90210	09/11/2023	TINTED SAFETY GLASSES	360.46
	90210	09/11/2023	SLOW CLOSING SOLENOID VALVE	1,934.34
	90210	09/11/2023	CLAMP METER	403.43
	90210	09/11/2023	COMPRESSOR/ VACUUM PUMP	318.92
	90210	09/11/2023	WAREHOUSE STOCK	50.27
	90210	09/11/2023	WAREHOUSE STOCK	107.87
	90210	09/11/2023	WAREHOUSE STOCK	24.39
	90210	09/11/2023	WAREHOUSE STOCK	83.94
	90210	09/11/2023	WAREHOUSE STOCK	578.25
	90210	09/11/2023	WAREHOUSE STOCK	1,240.10
Total GRAINGER INC., W.W.:				5,882.81
HACH CHEMICAL COMPANY				
	90211	09/11/2023	DO PROBE	3,243.17
	90211	09/11/2023	SHIPPING	30.31

Payee	Check Number	Check Issue Date	Description	Amount
	90266	09/21/2023	ELECTRODE	6,057.68
	90266	09/21/2023	CLEANING SOLUTION	1,721.18
	90266	09/21/2023	SHIPPING	64.95
Total HACH CHEMICAL COMPANY:				11,117.29
HDR ENGINEERING INC				
	90267	09/21/2023	CONN FEE STUDY	1,871.00
Total HDR ENGINEERING INC:				1,871.00
HOME DEPOT CREDIT SERVICES				
	90268	09/21/2023	PLYWOOD & SOCKET ADAPTER	351.95
	90268	09/21/2023	GROUT, TILE ADHESIVE, CUTTER & LEVELS	572.13
Total HOME DEPOT CREDIT SERVICES:				924.08
HUNT & SONS INC.				
	90212	09/11/2023	UNLEADED GAS	2,746.99
	90212	09/11/2023	DIESEL	604.03
Total HUNT & SONS INC.:				3,351.02
J.W. WELDING SUPPLY				
	90213	09/11/2023	CONTACT TIP	11.97
	90213	09/11/2023	NOZZLE INSULATOR	22.04
	90213	09/11/2023	NOZZLE	13.62
	90213	09/11/2023	CYLINDER RENTALS	15.90
	90213	09/11/2023	CYLINDER RENTALS	57.75
	90213	09/11/2023	CYLINDER RENTALS	135.90
Total J.W. WELDING SUPPLY:				257.18
JAR-HILLTOP				
	90214	09/11/2023	SERVICE CHARGE REFUND	7,523.05
Total JAR-HILLTOP:				7,523.05
JEROEN PREISS, AIMS TEAM LLC				
	90269	09/21/2023	ANNUAL WEBHOSTING OF AIMS FORr 1/1/2023 - 12/31/2023	4,800.00
Total JEROEN PREISS, AIMS TEAM LLC:				4,800.00
KRISTIN DAVIS				
	90270	09/21/2023	REIMBURSEMENT	108.00
Total KRISTIN DAVIS:				108.00
LIBERTY UTILITIES				
	90215	09/11/2023	ELECTRIC BILL	33.88
	90215	09/11/2023	ELECTRIC BILL	39.67
	90271	09/21/2023	ELECTRIC	38.77
	90271	09/21/2023	ELECTRIC	49.45
	90271	09/21/2023	ELECTRIC	41.22
Total LIBERTY UTILITIES:				202.99

Payee	Check Number	Check Issue Date	Description	Amount
LINDE GAS AND EQUIP INC				
	90216	09/11/2023	CYLINDER RENTALS	106.22
Total LINDE GAS AND EQUIP INC:				106.22
LOGICALLY				
	90217	09/11/2023	SERVER BACKUP	75.00
	90217	09/11/2023	MONTHLY BILLING FOR JULY	5,021.14
	90217	09/11/2023	MONTHLY BILLING FOR AUGUST	5,339.69
Total LOGICALLY:				10,435.83
MATCO TOOLS				
	90218	09/11/2023	WRENCHES	300.75
	90218	09/11/2023	5 PIECE BLOW GUN KIT	53.98
Total MATCO TOOLS:				354.73
MCMASTER-CARR				
	90219	09/11/2023	CABINET FOR SAFETY GLASSES	426.21
	90219	09/11/2023	LENS CLEANING STATION	64.04
Total MCMASTER-CARR:				490.25
MOTION INDUSTRIES				
	90220	09/11/2023	HI POWER V BELT	179.21
	90220	09/11/2023	BEARINGS FOR 2 WATER PUMPS	554.60
	90272	09/21/2023	TIMING BELT	56.80
Total MOTION INDUSTRIES:				790.61
MOUNTAIN HARDWARE				
	90221	09/11/2023	LIBMAN MOP	21.64
	90221	09/11/2023	1/2" IMPACT WRENCH	302.02
Total MOUNTAIN HARDWARE:				323.66
NAPA- SIERRA				
	90222	09/11/2023	FLUIDS FOR VEHICLE	139.58
	90222	09/11/2023	SERVICE CHARGE	19.91
	90222	09/11/2023	SOCKETS FOR FLEET	46.53
Total NAPA- SIERRA:				206.02
OFFICE DEPOT				
	90223	09/11/2023	DESK CHAIR FOR WAREHOUSE	432.56
	90223	09/11/2023	ANTI FATIGUE MATS	79.39
Total OFFICE DEPOT:				511.95
OLYMPUS SCIENTIFIC SOLUTIONS CORP				
	90224	09/11/2023	5FT MICRODOT CABLE	141.87
	90224	09/11/2023	DUAL THRU COAT TRANSDUCER	451.63
Total OLYMPUS SCIENTIFIC SOLUTIONS CORP:				593.50

Payee	Check Number	Check Issue Date	Description	Amount
O'REILLY AUTO PARTS				
	90225	09/11/2023	FINANCE CHARGE	2.73
Total O'REILLY AUTO PARTS:				2.73
PACIFIC OFFICE AUTOMATION				
	90226	09/11/2023	AUGUST MONTHLY BILL	55.85
	90273	09/21/2023	9/3/23-10/3/23 MONTHLY BILL	181.31
Total PACIFIC OFFICE AUTOMATION:				237.16
PAYMENTUS CORP				
	90274	09/21/2023	TRANSACTION FEES FOR AUG 2023	26.50
Total PAYMENTUS CORP:				26.50
PINNACLE TOWERS INC.				
	90227	09/11/2023	MONTHLY RADIO TOWER RENTAL	852.75
	90275	09/21/2023	MONTHLY RADIO TOWER RENTAL	852.75
	90275	09/21/2023	MONTHLY RADIO TOWER RENTAL	852.75
Total PINNACLE TOWERS INC.:				2,558.25
PLATT ELECTRIC COMPANY				
	90276	09/21/2023	UNDERGROUND ENCLOSURE	207.71
	90276	09/21/2023	ELECTRICAL COVER	204.58
Total PLATT ELECTRIC COMPANY:				412.29
RENO FORKLIFT STORAGE SYSTEMS				
	90228	09/11/2023	OIL FILTER	42.86
	90228	09/11/2023	AIR FILTER	73.02
Total RENO FORKLIFT STORAGE SYSTEMS:				115.88
REXEL				
	90229	09/11/2023	PROFIBUS ADAPTER	599.21
	90277	09/21/2023	POWERFLEX 750 SER PROFIBUS DPV1 ADAPTER	583.20
Total REXEL:				1,182.41
ROY SMITH COMPANY				
	90230	09/11/2023	5177 GAL LIQUID OXYGEN DLVD 8/16	9,836.30
	90230	09/11/2023	4853 GAL LIQUID OXYGEN DLVD 8/17/23	9,220.70
	90278	09/21/2023	2598 GAL OXYGEN DLVD 9/5/23	4,936.20
Total ROY SMITH COMPANY:				23,993.20
RS AMERICAS INC				
	90231	09/11/2023	PLC I/O MODULE	440.00
Total RS AMERICAS INC:				440.00
SAFETY-KLEEN CORP.				
	90232	09/11/2023	RENTAL FEE FOR PARTS WASHER	580.03

Payee	Check Number	Check Issue Date	Description	Amount
Total SAFETY-KLEEN CORP.:				580.03
SAFEWAY INC.				
	90233	09/11/2023	AUG 2023 BOARD MEETING SUPPLIES	207.84
Total SAFEWAY INC.:				207.84
SAF-T-FLO WATER SERVICES INC				
	90234	09/11/2023	PLC I/O MODULE	1,949.37
Total SAF-T-FLO WATER SERVICES INC:				1,949.37
SAVE MART SUPERMARKETS				
	90235	09/11/2023	SAFETY LUNCH	39.46
Total SAVE MART SUPERMARKETS:				39.46
SHRED-IT USA				
	90279	09/21/2023	7/26, 8/9, 8/23 SERVICE	251.14
Total SHRED-IT USA:				251.14
SIERRA ELECTRONICS				
	90280	09/21/2023	ANNUAL RADIO SUBSCRIPTION- MONTHLY FEE	160.00
Total SIERRA ELECTRONICS:				160.00
SOLENIS				
	90236	09/11/2023	K133L PRAESTOL	4,685.17
Total SOLENIS:				4,685.17
SUMMIT FIRE & SECURITY				
	90237	09/11/2023	FIRST AID KIT SERVICE	910.80
Total SUMMIT FIRE & SECURITY:				910.80
SUPER BRIGHT LEDS INC				
	90238	09/11/2023	LAMPS	206.34
	90238	09/11/2023	LAMPS	25.44
Total SUPER BRIGHT LEDS INC:				231.78
TAHOE TRUCKEE DISPOSAL				
	90239	09/11/2023	AUG 23 BIOSOLIDS	2,913.12
	90239	09/11/2023	DEBRIS BOXES	1,295.11
	90239	09/11/2023	CHEM SLUDGE & HEADWORKS SCREENING	21,875.86
Total TAHOE TRUCKEE DISPOSAL:				26,084.09
THATCHER COMPANY OF CA INC				
	90281	09/21/2023	4507.925 GAL DLVD	12,081.24
	90281	09/21/2023	6898.64 GAL METHANOL DLVD 7/10/23	13,565.22
	90281	09/21/2023	6777.61 GAL METHANOL DLVD 8/21/23	12,593.55
	90281	09/21/2023	6956.12 GAL METHANOL DLVD 7/27/23	13,678.26
	90281	09/21/2023	7037.82 GAL METHANOL DEL'D 7/20/23	13,838.89

Payee	Check Number	Check Issue Date	Description	Amount
Total THATCHER COMPANY OF CA INC:				65,757.16
TIP INC.				
	90282	09/21/2023	TRANSFER AUTHORIZATIONS STARTING #4525	160.21
Total TIP INC.:				160.21
TOTAL COMPENSATION SYSTEMS INC				
	89862	09/19/2023	GASB 75 Roll-Forward Valuation	1,710.00- V
	90283	09/21/2023	GASB 75 Roll-Forward Valuation	1,710.00
TOTAL COMPENSATION SYSTEMS INC:				.00
TRUCKEE DONNER PUD				
	90240	09/11/2023	7/18/23-8/15/23- ELECTRIC 10%	8,770.61
	90240	09/11/2023	7/18/23-8/15/23- ELECTRIC 90%	78,935.46
	90240	09/11/2023	7/18/23-8/15/23- WATER 10%	14.95
	90240	09/11/2023	7/18/23-8/15/23-WATER	134.54
	90240	09/11/2023	7/18/23-8/15/23- ELECTRIC	59.48
	90240	09/11/2023	7/18/23-8/15/23- ELECTRIC	51.18
	90240	09/11/2023	7/18/23-8/15/23- ELECTRIC	33.06
Total TRUCKEE DONNER PUD:				87,999.28
U.S. BANK CARD DIVISION				
	9212301	09/21/2023	MEMBERSHIP	150.00
	9212301	09/21/2023	2023 GAAP UPDATE ENCORE	135.00
	9212301	09/21/2023	LEGAL AD FOR PUBLIC HEARING	765.11
	9212301	09/21/2023	BATH TISSUE	580.32
	9212301	09/21/2023	MINI MOOS	84.95
	9212301	09/21/2023	BOOKS	154.09
	9212301	09/21/2023	AUDIO CONFERENCE MONTHLY CHARGE	110.00
	9212301	09/21/2023	ICE CREAM SOCIAL	65.71
	9212301	09/21/2023	DISTRICT MANAGERS LUNCH	162.16
	9212301	09/21/2023	MONTLY BILL	127.57
	9212301	09/21/2023	BASEBALL GAME	2,650.00
	9212301	09/21/2023	COOKIES	310.50
	9212301	09/21/2023	VERIZON BILL	38.82
	9212301	09/21/2023	HAZWOPER	39.95
	9212301	09/21/2023	HAIR TRIMMER	47.54
	9212301	09/21/2023	SENSORS	1,007.59
	9212301	09/21/2023	ICE	21.60
	9212301	09/21/2023	MONTHLY BILL	398.95
	9212301	09/21/2023	LED WEATHERPROOF EMERGENCY LIGHT	220.83
	9212301	09/21/2023	K&N FILTERS	672.12
	9212301	09/21/2023	METER	1,232.93
	9212301	09/21/2023	MEMBERSHIP	404.00
	9212301	09/21/2023	COOK EXHAUST	2,282.16
	9212301	09/21/2023	BATH TISSUE	95.96
	9212301	09/21/2023	REPLACEMENT SONDE	1,367.97
	9212301	09/21/2023	BEER CAN ACCTUATOR	447.68
	9212301	09/21/2023	HEINZ CLEANING VINEGAR	47.97
	9212301	09/21/2023	MECH TECH GRADE 4	113.00
	9212301	09/21/2023	MATERIALS FOR TRI TRUCK	614.38
	9212301	09/21/2023	TANKS FOR RAS	1,965.25
	9212301	09/21/2023	MONTHLY BILL	77.64

Payee	Check Number	Check Issue Date	Description	Amount
	9212301	09/21/2023	TOOLS FOR MAINTENANCE SHOP	198.12
	9212301	09/21/2023	GRADE 3 RENEWAL	105.00
	9212301	09/21/2023	BULBS	189.88
	9212301	09/21/2023	BULBS	132.94
	9212301	09/21/2023	VERIZON MONTHLY BILL	38.82
	9212301	09/21/2023	AMAZON WEB MONTHLY BILL	6.59
	9212301	09/21/2023	GOOGLE CHROME DEVICE MANAGEMENT	1,332.00
	9212301	09/21/2023	MONTHLY CHARGE	17.99
	9212301	09/21/2023	PROFIBUS REPEATER AND HUB	2,855.65
	9212301	09/21/2023	PROFIBUS REPEATER AND HUB	2,855.65
Total U.S. BANK CARD DIVISION:				24,124.39
ULINE				
	90241	09/11/2023	MAGNETS FOR WAREHOUSE LABELING	425.16
Total ULINE:				425.16
UNIFIRST CORPORATION				
	90242	09/11/2023	UNIFORMS	118.16
	90242	09/11/2023	UNIFORMS	39.83
	90242	09/11/2023	UNIFORMS	53.24
	90242	09/11/2023	UNIFORMS	194.30
	90242	09/11/2023	UNIFORMS	24.60
	90284	09/21/2023	UMIFORMS	39.83
	90284	09/21/2023	UNIFORMS	24.60
	90284	09/21/2023	UNIFORMS	118.16
Total UNIFIRST CORPORATION:				612.72
UNITED PARCEL SERVICE, UPS				
	90243	09/11/2023	SHIPPING FEES FOR RETURNS	40.17
	90243	09/11/2023	SHIPPING FEES FOR RETURNS	36.54
	90243	09/11/2023	SHIPPING FEES FOR RETURNS	1.15
	90243	09/11/2023	SHIPPING CHARGE	1.45
Total UNITED PARCEL SERVICE, UPS:				79.31
UNITED RENTALS				
	90244	09/11/2023	BARRIER WALL RENTAL	190.00
	90244	09/11/2023	BARRIER WALL RENTAL	190.00
	90244	09/11/2023	BARRIER WALL RENTAL	190.00
	90244	09/11/2023	BARRIER WALL RENTAL	190.00
	90285	09/21/2023	MANLIFT REPAIR PARTS	1,163.94
Total UNITED RENTALS:				1,923.94
USA BLUE BOOK				
	90245	09/11/2023	FLEXFLO PUMP	1,991.75
	90245	09/11/2023	FLEXFLO PUMP	1,991.74
	90245	09/11/2023	SHIPPING	36.14
	90286	09/21/2023	METERING PUMP	1,991.74
	90286	09/21/2023	SHIPPING	26.19
Total USA BLUE BOOK:				6,037.56

Payee	Check Number	Check Issue Date	Description	Amount
UTILITY SYSTEMS SCIENCE AND SOFTWAR				
	90246	09/11/2023	CALIBRATION OF FLOW METERS	4,995.00
	90246	09/11/2023	CALIBRATION OF FLOW METERS	1,500.00
Total UTILITY SYSTEMS SCIENCE AND SOFTWAR:				6,495.00
VICKY LUFRANO				
	90287	09/21/2023	REIMBURSEMENT	169.00
Total VICKY LUFRANO:				169.00
VWR SCIENTIFIC INC				
	90247	09/11/2023	DRIERITE INDICTNG 8 MESH 2.3KG	2,466.41
	90247	09/11/2023	SELECT APS TSB 500G	218.06
	90247	09/11/2023	PHOSPHATE	4,286.07
	90247	09/11/2023	PHOSPHATE 3 PP 25ML PK100	5,519.28
	90247	09/11/2023	ANTI FATIGUE MATS	1,801.71
	90288	09/21/2023	BDH PHOSPHORUS	139.12
	90288	09/21/2023	VWR FILTER PAPER	532.20
	90288	09/21/2023	VWR TRACEABLE BAROMETER	300.73
	90288	09/21/2023	VWR THERMOMETER INCUBATOR 10/45C 102MM	248.04
	90288	09/21/2023	NITROGEN NO3 1000MG/L 500ML	99.06
	90288	09/21/2023	NITRITE-NITROGEN ION STD 1000PPM 125ML	193.18
	90288	09/21/2023	MEDIUM TSA 15X100MM PLTD PK10	19.63
	90288	09/21/2023	Shipping	30.84
	90288	09/21/2023	VWR VIAL 0.5ML W/FILTER PK250	736.45
	90288	09/21/2023	Shipping	24.69
	90288	09/21/2023	TRINOCULAR SCOPE	1,978.79
Total VWR SCIENTIFIC INC:				18,594.26
WESTERN ENV. TESTING LAB.				
	90248	09/11/2023	LAB TESTING AT WET	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 8/29/23	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 9/6/23	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 8/28/23	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 8/30/23	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 8/31/23	79.00
	90289	09/21/2023	BIOSOLIDS REC'D 09/05/23	79.00
Total WESTERN ENV. TESTING LAB.:				553.00
ZOHO CORP				
	90249	09/11/2023	MOBLIE DEVICE MANAGER SOFTWARE	1,076.00
Total ZOHO CORP:				1,076.00
ZORO				
	90250	09/11/2023	LIMIT SWITCH	176.93
	90250	09/11/2023	BATTERIES	33.01
	90250	09/11/2023	BATTERIES	29.29
	90250	09/11/2023	UTILITY KNIVES	54.34
	90250	09/11/2023	PVC	22.09
	90250	09/11/2023	THREAD SEALANT	38.96
	90250	09/11/2023	THREAD LOCKER	41.02
	90250	09/11/2023	VALVE	193.33

Payee	Check Number	Check Issue Date	Description	Amount
Total ZORO:				588.97
Grand Totals:				831,382.29

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Crystal Sublet, Finance and Administrative Manager
Item: IV-3
Subject: Ratify approval of Financial Statements.

Background

Attached are the Financial Statements for the previous calendar month(s); each of which include (1) fund summaries, (2) end of month cash balances, (3) Local Agency Investment Fund *(*LAIF) statement, and (4) California Employers' Retiree Benefit Trust (CERBT) Fund statement.

Summaries of the expenditure and revenue activity are provided for Fund 10: General Fund; Fund 02: Wastewater Capital Reserve Fund; and Fund 06: Replacement, Rehabilitation and Upgrade Fund.

The end of month Combined Cash Investment table provides the end of month balances for all Agency cash accounts, which reconciles with Agency end of month fund balances.

The Finance Committee reviewed and approved the Financial Statements at its recent meeting.

Fiscal Impact

None.

Attachments

Report of Financial Statements.

Recommendation

Management and staff recommend the Board Directors ratify and approve the Agency's Financial Statements.

Review Tracking

Submitted By: _____
Crystal Sublet
Finance and Administrative Manager

Approved By: _____
Richard Pallante
General Manager

Tahoe-Truckee Sanitation Agency
Fund 10: General Fund
Fiscal Year 2023 - 2024
Period Ending September 30, 2023

	Budget $	Month $	Month %	YTD $	YTD %	Notes
REVENUE						
Income from Service Charge	17,026,000.00	1,414,485.29	8.3	4,230,502.77	24.8	1,2,3
Tax Revenue - Ad Valorem	5,078,000.00	3,054.46	0.1	3,054.46	0.1	2
Fund Interest	254,000.00	87,623.29	34.5	137,237.70	54.0	4
Other Revenue	73,000.00	1,404.87	1.9	7,242.27	9.9	5
Temporary Discharge	25,000.00	0.00	0.0	12,018.83	48.1	
TOTAL REVENUE	**22,456,000.00**	**1,506,567.91**	**6.7**	**4,390,056.03**	**19.5**	
EXPENDITURE						
Salaries & Wages	6,567,000.00	441,749.58	6.7	1,602,533.29	24.4	
Employee Benefits	3,602,500.00	548,504.34	15.2	1,432,567.29	39.8	
OPEB Retiree Health Reimbursement	0.00	0.00	0.0	(450,000.00)	0.0	6
Director Fees	9,500.00	600.00	6.3	1,900.00	20.0	
Vehicle	83,000.00	5,476.41	6.6	35,533.60	42.8	
CSRMA Insurance	415,000.00	0.00	0.0	358,812.40	86.5	7
Professional Memberships	53,500.00	2,603.00	4.9	3,616.00	6.8	
Agency Permits & Licenses	225,000.00	1,856.96	0.8	1,856.96	0.8	
Office Expense	336,500.00	22,151.35	6.6	37,842.41	11.2	
Contractual Services	2,740,500.00	165,547.50	6.0	327,273.03	11.9	
Professional Services	689,000.00	21,126.50	3.1	63,682.93	9.2	
Conferences & Training	214,000.00	214.41	0.1	17,225.09	8.0	
Utilities	1,413,000.00	88,486.47	6.3	194,206.61	13.7	
Supplies, Repairs & Maintenance	1,234,500.00	117,038.20	9.5	222,984.11	18.1	
TOTAL EXPENDITURE	**17,583,000.00**	**1,415,354.72**	**8.0**	**3,850,033.72**	**21.9**	
NET INCOME (LOSS)	**4,873,000.00**	**91,213.19**		**540,022.31**		
Unfunded Accrued Liability	1,144,000.00	0.00		1,106,589.00	96.7	

25% of the fiscal year has elapsed.
This is an unaudited status report.

Notes:
1 - TTSA collects the majority of its Sewer Service Charges on the county property tax bills of Placer County, El Dorado County and Nevada County. Placer County and Nevada County Sewer Service Charges are on the Teeter Schedule.
2 - Sewer Service Charges and Property Tax Revenue are net amounts of each County's billing fees. Teeter Schedule 55% - 1/2023, 40% 5/2023 and 5% 7/2023.
3 - The majority of Sewer Service Charges are collected on the County tax roll and recorded on a monthly basis according to the accrual-based accounting method. Sewer Service Charges not on the County tax roll are recorded when received.
4 - Interest on LAIF balances is received and recorded quarterly (10/2022, 1/2023, 4/2023 and 7/2023).
5 - Other Revenue includes rebates, billings and surplus items sold.
6 - OPEB Reimbursement received from CalPERS for FY22 retiree health insurance premiums.
7 - Property and Pooled liability insurance.

Tahoe-Truckee Sanitation Agency
Fund 02: Wastewater Capital Reserve
Fiscal Year 2023 - 2024
Period Ending September 30, 2023

	Budget $	Month $	Month %	YTD $	YTD %	Notes
REVENUE						
Income from Connection Fees	1,071,000.00	140,828.63	13.1	557,962.63	52.1	
Fund Interest	440,000.00	70,973.19	16.1	176,031.15	40.0	7
TOTAL REVENUE	**1,511,000.00**	**211,801.82**	**14.0**	**733,993.78**	**48.6**	
EXPENDITURE						
FY24 Disinfection Process Modernization	500,000.00	1,988.07	0.4	1,988.07	0.4	1
FY24 Improve Physical Security	167,000.00	0.00	0.0	0.00	0.0	
FY24 Digestion Improvements Project	81,000.00	0.00	0.0	0.00	0.0	2
FY24 Lime Systems Improvements	56,500.00	0.00	0.0	0.00	0.0	2
FY24 River Crossing, Gravity Main	31,500.00	0.00	0.0	0.00	0.0	2
FY24 Plant Wide Electrical Improvements	12,500.00	0.00	0.0	0.00	0.0	
FY24 TWAS Pump Replacement Project	7,000.00	0.00	0.0	0.00	0.0	
FY23 Maintenance Carts	0.00	29,289.76	0.0	29,289.76	0.0	
FY23 Scada/IT Develop Standards	237,000.00	0.00	0.0	41,466.00	17.5	1
SUBTOTAL EXPENDITURES	**1,092,500.00**	**31,277.83**	**2.9**	**72,743.83**	**6.7**	
Allocation of 73.2% of Bond Payment	2,206,000.00	0.00	0.0	0.00	0.0	
TOTAL EXPENDITURE	**3,298,500.00**	**31,277.83**	**0.9**	**72,743.83**	**2.2**	
NET INCOME (LOSS)	**(1,787,500.00)**	**180,523.99**		**661,249.95**		

25% of the fiscal year has elapsed.
This is an unaudited status report.

Notes:
(1) Project started
(2) Project started; no expenses invoiced
(3) Project not started
(4) Project completed
(5) Project postponed to after FY24
(6) Project cancelled
(7) Interest on LAIF balances is received and recorded quarterly (10/2022, 1/2023, 4/2023 and 7/2023).

Tahoe-Truckee Sanitation Agency
Fund 06: Replacement, Rehabilitation and Upgrade
Fiscal Year 2023 - 2024
Period Ending September 30, 2023

EXPENDITURE	Budget $	Month $	Month %	YTD $	YTD %	Notes
FY24 Building Roof Replacements	1,268,000.00	424,475.56	33.5	424,475.56	33.5	1
FY24 Front Entry Landscape Improvements	1,260,000.00	0.00	0	0.00	0	2
FY24 Lime Systems Improvements	414,000.00	0.00	0	0.00	0	2
FY24 LEL Equipment Replacement	364,000.00	0.00	0	0.00	0	
FY24 Cashman CAT 938M Wheel Loader	297,000.00	0.00	0	0.00	0	
FY24 Upgrade Networks	188,000.00	0.00	0	0.00	0	
FY24 Harmonic Filter Replacement	148,000.00	0.00	0	0.00	0	
FY24 Plant Wide NFPA 820 Compliance	126,000.00	0.00	0	0.00	0	
FY24 Visable Reinforcement Study	105,000.00	0.00	0	0.00	0	
FY24 Light Vehicle Replacement	104,000.00	0.00	0	0.00	0	
FY24 Filter Press Feed Pump	103,000.00	0.00	0	0.00	0	
FY24 Plant Wide Electrical	92,000.00	0.00	0	0.00	0	
FY24 2-Water Valve Replacement	86,000.00	0.00	0	0.00	0	2
FY24 Odorous Air VFD	80,000.00	0.00	0	0.00	0	
FY24 Cashman CAT Skid Steer	78,000.00	0.00	0	0.00	0	
FY24 BIPS Strainer Basket Refurbishment	75,000.00	0.00	0	0.00	0	
FY24 Condition Assessment	74,000.00	0.00	0	0.00	0	2
FY24 Maintenance Carts	63,000.00	0.00	0	0.00	0	
FY24 Replacement Primary Sludge Pumps	63,000.00	0.00	0	0.00	0	
FY24 TWAS Pump Replacement Project	50,000.00	0.00	0	0.00	0	
FY24 Misc Plant Rehab Project	50,000.00	0.00	0	0.00	0	
FY24 Breaker Replacement	49,000.00	0.00	0	0.00	0	
FY24 WAS Thickening	46,000.00	0.00	0	0.00	0	
FY24 Cake Discharge VFD	41,000.00	0.00	0	0.00	0	
FY24 Operation Forklift	40,000.00	0.00	0	0.00	0	
FY24 2-Water System	40,000.00	0.00	0	0.00	0	
FY24 Replacement Valves	35,000.00	0.00	0	0.00	0	
FY24 VFD Replacements	34,000.00	0.00	0	0.00	0	
FY24 BNR Blower Replacement	29,000.00	0.00	0	0.00	0	
FY24 Filter Press Hydraulic	26,000.00	0.00	0	0.00	0	
FY24 Phosphorus Stripper Flow	17,000.00	0.00	0	0.00	0	
FY23 Digestion Improvements Project	501,000.00	0.00	0	0.00	0	2
FY23 Scada/IT Replace Servers	285,000.00	0.00	0	0.00	0	
FY23 River Crossing, Gravity Main	255,000.00	0.00	0	0.00	0	2
FY23 Lab Equipment Replacements	73,000.00	0.00	0	0.00	0	
FY23 Chlorine Scrubber IMP	0.00	0.00	0	0.00	0	
FY23 Odorous Air VFD	0.00	0.00	0	0.00	0	
FY23 Cake Discharge VFD	0.00	0.00	0	0.00	0	
SUBTOTAL EXPENDITURES	**6,559,000.00**	**424,475.56**	**6.5**	**424,475.56**	**6.5**	
Allocation of 26.8% of Bond Payment	808,000.00	0.00	0.0	0.00	0.0	
TOTAL EXPENDITURES	**7,367,000.00**	**424,475.56**	**5.8**	**424,475.56**	**5.8**	

25% of the fiscal year has elapsed.
This is an unaudited status report.

Notes:
(1) Project started
(2) Project started; no expenses invoiced
(3) Project not started
(4) Project completed
(5) Project postponed to after FY23
(6) Project cancelled

Tahoe-Truckee Sanitation Agency
Combined Cash Statement
September 30, 2023

COMBINED CASH ACCOUNTS	
CASH - US BANK CHECKING	307,140.14
CASH - USB SERVICE CHARGE	21,983.56
CASH - US BANK TAX REV	28,493.20
CASH - US BANK WWCRF	26,148.52
CASH - WELLS FARGO PAYROLL	469,059.12
CASH - PETTY CASH	600.00
CASH - L.A.I.F.	3,194.66
MONEY MARKET INV - PERSHING	162,930.22
MONEY MARKET INV - ZIONS	2,568,784.05
CALIFORNIA CLASS	25,189,976.11
US TREASURY SECURITIES - FND02	4,900,032.76
FDIC INSURED CD'S	2,491,181.17
CASH CLEARING - UTILITIES	500.00
TOTAL COMBINED CASH	36,170,023.51
CASH ALLOCATED TO OTHER FUNDS	(36,170,023.51)
TOTAL UNALLOCATED CASH	0.00

FUND	CASH ALLOCATION RECONCILATION	September 30, 2023	August 31, 2023	Amount of Change	% of Change	September 30, 2022	Amount of Change	% of Change
02	ALLOCATION TO WASTWATER CAPITAL RESERVE FUND	18,699,816.77	18,515,619.80	184,196.97	0.99	17,467,596.29	1,232,220.48	7.05
06	ALLOCATION TO R.R. & UPGRADE FUND	2,966,807.03	3,391,220.93	(424,413.90)	(12.52)	7,466,579.90	(4,499,772.87)	(60.27)
07	ALLOCATION TO EMERGENCY & CONTINGENCY FUND	4,115,244.24	4,102,152.89	13,091.35	0.32	4,000,000.00	115,244.24	2.88
10	ALLOCATION TO GENERAL FUND	10,388,155.47	11,182,407.00	(794,251.53)	(7.10)	8,513,415.10	1,874,740.37	22.02
	TOTAL ALLOCATION TO OTHER FUNDS	36,170,023.51	37,191,400.62	(1,021,377.11)	(2.75)	37,447,591.29	(1,277,567.78)	(3.41)
	ALLOCATIONS FROM COMBINED CASH	(36,170,023.51)	(37,191,400.62)			(37,447,591.29)		
	ZERO PROOF IF ALLOCATIONS BALANCE	0.00	0.00			0.00		

California State Treasurer
Fiona Ma, CPA

Local Agency Investment Fund
P.O. Box 942809
Sacramento, CA 94209-0001
(916) 653-3001

October 04, 2023

LAIF Home
PMIA Average Monthly Yields

TAHOE TRUCKEE SANITATION AGENCY

TREASURER
13720 BUTTERFIELD DRIVE
TRUCKEE, CA 96161

Tran Type Definitions

Account Number: 70-31-001

September 2023 Statement

Account Summary

Total Deposit:	0.00	Beginning Balance:	3,194.66
Total Withdrawal:	0.00	Ending Balance:	3,194.66

California CLASS

Summary Statement

September 30, 2023

Investor ID: CA-01-0093

0000088-0000334 PDFT 574823

Tahoe-Truckee Sanitation Agency
13720 Butterfield Drive
Truckee, CA 96161

California CLASS

California CLASS

Average Monthly Yield: 5.4766%

		Beginning Balance	Contributions	Withdrawals	Income Earned	Income Earned YTD	Average Daily Balance	Month End Balance
CA-01-0093-0001	CalClass Investment Account	26,145,126.12	730,000.00	1,800,000.00	114,849.99	279,976.11	25,488,782.79	25,189,976.11
TOTAL		**26,145,126.12**	**730,000.00**	**1,800,000.00**	**114,849.99**	**279,976.11**	**25,488,782.79**	**25,189,976.11**

Account Name : Tahoe-Truckee Sanitation Agency Custody Account No :

Holdings

Shares / PV	Asset Description			Cost	Price	Market	Est Ann Inc	Yield	Acc Income
	Money Market Funds - Taxable								
2,568,784.05	Fidelity Treasury Only Class III FOIXX			2,568,784.05	1.00	2,568,784.05	127,204.08	4.95%	1,095.57
2,568,784.05	**** * Sub Totals * ****			2,568,784.05		2,568,784.05	127,204.08	4.95%	1,095.57
	U.S. Treasury Notes & Bonds								
2,555,000	U S Treasury Notes	0.750%	12/31/2023	2,491,181.17	98.86	2,525,857.03	19,162.50	0.76%	4,790.63
2,555,000	**** * Sub Totals * ****			2,491,181.17		2,525,857.03	19,162.50	0.76%	4,790.63
5,123,784.05	**** * Grand Totals * ****			5,059,965.22		5,094,641.08	146,366.58	2.87%	5,886.20

Cash Summary

Principal Cash	-59,965.22
Income Cash	59,965.22
Invested Income	0.00

CONCOURSE
FINANCIAL GROUP
SECURITIES

2801 Highway 280 South
Birmingham, AL 35223
800-288-3035

TVI | TIME VALUE INVESTMENTS®

Brokerage
Account Statement

September 1, 2023 - September 30, 2023
Account Number: 5EQ-943933

TAHOE TRUCKEE SANITATION AGENCY
ATTN CRYSTAL SUBLET
13720 BUTTERFIELD DR
TRUCKEE CA 96161-3316

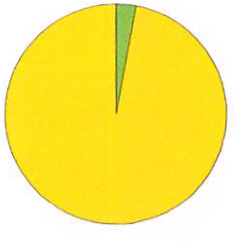
Your Investment Representative:
AARON BONCK
(206) 365-3003

Portfolio at a Glance

	This Period
BEGINNING ACCOUNT VALUE	**$5,012,895.37**
Dividends, Interest and Other Income	11,872.41
Net Change in Portfolio[1]	-2,868.26
ENDING ACCOUNT VALUE	**$5,021,899.52**
Estimated Annual Income	$248,656.23

[1] *Net Change in Portfolio is the difference between the ending account value and beginning account value after activity.*

Asset Summary



Percent	Asset Type	Last Period	This Period
3%	Cash, Money Funds, and Bank Deposits	151,057.81	162,930.22
97%	Fixed Income	4,861,837.56	4,858,969.30
100%	**Account Total (Pie Chart)**	**$5,012,895.37**	**$5,021,899.52**

Please review your allocation periodically with your Investment Representative.

Client Service Information

Your Investment Representative: J2Y
AARON BONCK
9725 3RD AVE NE
SUITE 610
SEATTLE WA 98115

Contact Information
Business: (206) 365-3003
Fax: (206) 417-6000

CalPERS

CERBT and CEPPT Plan Portal - As Of 10/03/2023

Investment Allocation

Account: 5084675063 » Tahoe-Truckee Sanitation Agency

Investment Strategy	Unit Price	Number of Units	Balance
CERBT Strategy 1	19.210794	618,690.052	$11,885,527.36
		Total	$11,885,527.36

Download to Excel

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Vicky Lufrano, Human Resources Administrator
Item: V-1
Subject: Approval of Updated Classification Descriptions.

Background
New classification descriptions, which accurately reflect duties of staff, became effective January 1, 2020. As a continuous effort to maintain the accuracy of the classification descriptions, there are proposed amendments to existing classification descriptions, as follows:

Information Technology Specialist – Add language to include obtaining a confined space certificate within six months of appointment. For those already employed in the position, they will be given six months to obtain. Upcoming project(s) have been identified that will require confined space entries to complete work.

Operator OIT/I/II/III – Add language to define amount of time expected to achieve Grade III certification. For those already employed in the position, they will be given the equivalent amount of time listed on the job description.

Fiscal Impact
None.

Attachments
Several classification descriptions.

Recommendation
Management and staff recommend approval of the updated classification descriptions.

Review Tracking

Submitted By: _____
Vicky Lufrano
Human Resources Administrator

Approved By: _____
Richard Pallante
General Manager

TAHOE-TRUCKEE SANITATION AGENCY
Class Specification

Job Title: Information Technology Specialist

Department: Maintenance
FLSA Status: NON EXEMPT
Revised as of: ~~08/2021~~10/2023

DEFINITION

Performs a variety of professional and technical duties related to the maintenance of information technology components of the operations of the Agency, including Supervisory Control and Data Acquisition (SCADA) operations, conventional desktops and networking.

DISTINGUISHING CHARACTERISTICS

Employees within this journey-level class perform the full range of duties as assigned including maintaining various information technology components such as SCADA, HMI and desktop systems. Employees at this level receive minimal instruction or assistance, and are fully aware of the operating procedures and policies of the work unit.

SUPERVISION RECEIVED AND EXERCISED

Reports directly to, and receives general supervision from the ~~Electrical & Instrumentation Supervisor~~Information Technology Supervisor.

EXAMPLES OF DUTIES: *the duties specified below are representative of the range of duties assigned to this class and are not intended to be an inclusive list.*

- Performs technical and professional duties related to the development and maintenance of Agency computer systems including servers, computers, phones, printers, security cameras, uninterruptible power supplies and networking equipment.
- Develops and maintains custom software and hardware for use by Agency departments.
- Monitors and performs computer equipment repairs; plans and implements upgrades and creates redundancy and backups.
- Provides desktop support for Agency computers, hardware and software; provides training and technical support to Agency staff.
- Collaborates with Operations staff as it relates to the design, monitoring and training of SCADA and automation hardware and software.
- Develops technical documentation; assembles a variety of reports; maintains daily and weekly logs and records.
- Designs, modifies, reads and interprets maps, schematics, plans, blueprints and specifications.
- Provides input to the Agency's information technology strategy.
- Designs, implements and maintains systems architecture across multiple platforms; and coordinates for the design, modification, upgrade and implementation of infrastructure design.

CLASS TITLE: Information Technology Specialist

- Represents the Agency with dignity, integrity, and the spirit of cooperation in all relations with staff and the public.
- Builds and maintains positive working relationships with co-workers, other Agency employees and the public using principles of good customer service.
- Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

- Principles of Windows and Linux-based Systems Management.
- Principles of network communication through hardware and software.
- Physical and virtual architecture of networks and computer systems.
- Various programming languages including scripting languages (Javascript, Python), dynamic and statically compiled languages (JAVA, C++) and automation configuration software (Ladder Logic and assembly).
- Best practices as they relate to network and systems security, web development, data storage, replication, retention and governance.
- PLC and SCADA control strategies.
- Modern office practices, methods, and computer equipment including relevant software programs.
- Operation of office equipment including personal computers, fax machines, copiers, printers, typewriters, telephones, voicemail and e-mail systems, etc.
- Oral and written communication skills; business English including vocabulary, spelling, and correct grammatical usage and punctuation.
- Safe work practices.
- Principles and practices of customer service.

Ability to:

- Install, maintain and troubleshoot a variety of information technology components including networks, hardware, software, PLC's and SCADA systems.
- On an ongoing basis, know and understand all requirements and essential aspects of the job including laws, regulations, rules and codes related to area of assignment; intermittently access, review, and adjust and enter data on documents, reports and files; design specifications and schematics; analyze, interpret and recommend changes to technology work plans; manage technology projects; interpret analytical results and technical and numerical information; explain processes to others; observe equipment and conditions and problem solve issues related to area of assignment; remember various processes and requirements; interpret and communicate information.
- Read and interpret maps, schematics and electrical drawings.
- Understand and carry out oral and written instructions, and prioritize workload to meet deadlines.
- Read, write and comprehend the English language at a level necessary for effective job performance exercising correct English usage, vocabulary, spelling, grammar and punctuation.
- Communicate effectively, tactfully and positively in both oral and written form.

CLASS TITLE: Information Technology Specialist

- Operate and use modern office equipment and technology, including computers and applicable software.
- Maintain regular attendance and adhere to prescribed work schedule to conduct job responsibilities.
- Utilize appropriate safety procedures and practices for assigned duties.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Contribute effectively to the accomplishment of Agency goals, objectives and activities.

Experience and Education:
Any combination of experience and training that would provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Experience:
Two years of responsible experience in the development and maintenance of computer systems, SCADA and automation.

Education:
Equivalent to a Bachelor's degree from an accredited college or university with major course work in computer science, information technology, or a related field.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of a valid California or Nevada Class C Driver License is desired.

Ability to obtain a confined space certificate within six months of appointment.

PHYSICAL REQUIREMENTS
Work effectively for long periods of time at a desk, table, counter; intermittently move, traverse and position self while performing work activities; ascend and descend stairs, ladders or step stools to inspect or reach equipment or other items and to access areas out of normal reach; manipulate, operate, activate and adjust equipment and tools; position self to adjust office and field equipment or to access low or high items; discern hazard warning signs, and discern and respond to announcements and alarms, move or transport weight of 25 pounds or less.

WORKING/ENVIRONMENTAL CONDITIONS
Work is performed in a typical temperature controlled office environment subject to typical office noise and environment. In addition, this position is exposed to all weather conditions while conducting field work.

TAHOE-TRUCKEE SANITATION AGENCY
Class Specification

Job Title: Operator-In-Training/Operator I/II/III

Department: Operations Department
FLSA Status: NON EXEMPT
Revised as of: ~~08/2021~~10/2023

DEFINITION

Performs a variety of semi-skilled and skilled tasks associated with the operation and maintenance of the Agency's wastewater treatment plant; monitors treatment plant processes; responds to alarms; collects and analyzes samples; and maintains and submits a variety of documents and records.

DISTINGUISHING CHARACTERISTICS

Operator-In-Training – This is the trainee level of the Operator class series. Positions in this class typically have little directly related work experience. Operators–In–Training perform the most routine duties of this classification, progressing to more complex duties with training and experience. The Operator–In–Training is distinguished from the Operator I by the performance of tasks allowed with possession of a Wastewater Treatment Operator–In–Training certificate.

Operator I - This is the entry level class in the Operator series and works under close supervision while continuing to learn job tasks. The Operator I is distinguished from the Operator II by the performance of tasks allowed with possession of a Wastewater Treatment Operator Grade I certificate. Positions in this class are flexibly staffed and are normally filled by advancement from the Operator–In–Training level once the incumbent meets the qualification standards of the I level, demonstrates an ability to perform the full scope of the work, and meets all other performance standards.

Operator II - This is the third level class in the Operator series. It is distinguished from the I level by the assignment of the full range of duties. The Operator II is distinguished from the Operator III by the performance of tasks and duties allowed with possession of a Wastewater Treatment Plant Operator Grade II certification. Positions in this class are flexibly staffed and are normally filled by advancement from the I level once the incumbent meets the qualification standards of the II level, demonstrates an ability to perform the full scope of the work, and meets all other performance standards.

Operator III - This is the fourth level class in the Operator series. The Operator III is distinguished from the Operator II by the ability to perform the full range of duties assigned, including serving as shift operator-in-charge, as needed and allowed with possession of Wastewater Treatment Plant Operator Grade III certification and sufficient amount of Agency experience as determined by the Chief Plant Operator. Positions in this class are flexibly staffed and are normally filled by advancement from the Operator II level the incumbent meets the qualification standards of the III

level, demonstrates an ability to perform the full scope of the work, and meets all other performance standards.

SUPERVISION RECEIVED AND EXERCISED

Operator-In-Training

Reports directly to, and receives immediate supervision from an Operations Shift Supervisor, or designee and may receive technical and functional supervision from an Operator III who is serving as shift operator-in-charge.

Operator I

Reports directly to, and receives immediate supervision from an Operations Shift Supervisor, or designee and may receive technical and functional supervision from an Operator III who is serving as shift operator-in-charge.

Operator II

Reports directly to, and receives general supervision from an Operations Shift Supervisor, or designee and may receive technical and functional supervision from an Operator III who is serving as shift operator-in-charge.

Operator III

Reports directly to, and receives general supervision from an Operations Shift Supervisor, or designee. May provide technical and functional supervision to less certified Operators and assumes the role of operator-in-charge as needed.

EXAMPLES OF DUTIES (for all Operator levels): *the duties specified below are representative of the range of duties assigned to this class and are not intended to be an inclusive list.*

- Collects, processes and performs laboratory tests in accordance with Agency Quality Assurance Manual, including retrieving wastewater, sludge and/or dry samples.
- Performs operations, control, and maintenance functions. Performs laboratory testing and sample collections.
- Operates pumps, valves and metering equipment and other plant equipment; monitors pumping flows; and adjusts, stops or starts plant processes.
- Cleans, flushes and maintains plant equipment and performs minor equipment repairs.
- Inspects a variety of plant equipment; reads and records gauges; ensures maximum efficiency of processes and equipment.
- Operates a forklift to transport, load and unload materials, supplies and equipment, as assigned.

JOB TITLE: Operator-In-Training/I/II/III

- Delivers materials to laboratory.
- Enters and retrieves information using computer-based system application.
- Performs confined space entries to inspect tanks and other spaces.
- Performs record keeping functions such as logging plant operations, test results, maintenance work performed and unusual operating conditions; prepares and maintains a variety of records.
- Locates and troubleshoots malfunctions; investigates and inspects abnormal equipment gauge readings or other unusual situations; responds to alarms and treatment issues; and notifies appropriate personnel as necessary.
- Reports the need for repairs or maintenance if unable to be performed immediately.
- Interprets technical data and maintains a variety of accurate records, reports, and logs.
- Adheres to all safety policies and standard operating procedures, including the handling of chemicals used in the operation of the plant.
- Performs a variety of general facilities maintenance duties.
- Complies with all wastewater treatment facility permits and regulations.
- Accepts deliveries and handles other know hazardous chemicals.
- Work and assigned shift on a rotating basis.
- Represents the Agency with dignity, integrity, and the spirit of cooperation in all relations with staff and the public.
- Builds and maintains positive working relationships with co-workers, other Agency employees and the public using principles of good customer service.
- Performs related duties as assigned.

When acting as the designated shift operator-in-charge (with sufficient amount of Agency experience as determined by the Chief Plant Operator), duties include (Operator III only):

- Ensures Agency compliance with the Wastewater Discharge Requirements (WDR).
- Performs the full range of operations, control, and maintenance functions during assigned shift while optimizing efficiency; performs laboratory testing and sample collections in accordance with Agency Quality Assurance Manual; demonstrates a full understanding of all applicable policies and work methods associated with assigned duties.
- Operates and monitors all SCADA systems; revises equipment settings as appropriate; makes inspections and corrects or controls system problems as necessary; documents problems and actions taken to address problems.
- Instructs staff in work procedures.
- Communicates, organizes, and directs staff efforts in response to emergency situations.

JOB TITLE: Operator-In-Training/I/II/III

QUALIFICATIONS

Operator-In-Training

Knowledge of:

- Basic mechanical principles and practices.
- Basic mathematics, geometry and algebra.
- Basic principles and practices related to chemistry and biology.
- Manual and mechanized tools and equipment needed to make general repairs.
- Methods and processes to perform basic laboratory tests.
- Modern office practices, methods, and computer equipment.
- Operation of office equipment including personal computers, fax machines, copiers, printers, telephones, voicemail and e-mail systems, etc.
- Oral and written communication skills; business English including vocabulary, spelling, and correct grammatical usage and punctuation.
- Safe work practices.
- Principles and practices of customer service.

Ability to:

- Learn to assist in the performance of a variety of unskilled and progressively more skilled tasks related to operating the wastewater treatment facility in a safe manner.
- Learn the requirements and essential aspects of the job, including safety rules and identifying hazards.
- Learn to safely operate a variety of manual and mechanized tools and equipment.
- Learn to make minor repairs.
- Learn to maintain accurate records, reports, and logs.
- Understand and carry out oral and written instructions.
- Read, write and comprehend the English language at a level necessary for effective job performance, exercising correct English usage, vocabulary, spelling, grammar and punctuation.
- Communicate effectively, tactfully and positively in both oral and written form.
- Operate and use modern office equipment and technology, including computers and learn to use applicable software.
- Maintain regular attendance and adhere to prescribed work schedule to conduct job responsibilities.
- Function in confined spaces and/or hazardous environment.
- Utilize appropriate safety procedures and practices for assigned duties.
- Establish and maintain effective working relationships with those contacted in the course of work.
- Contribute effectively to the accomplishment of Agency goals, objectives and activities.

JOB TITLE: Operator-In-Training/I/II/III

Experience and Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying (equivalent to California State Water Resources Control Board requirements for certification). A typical way to obtain the required knowledge and abilities would be:

Experience:
No previous wastewater treatment plant experience necessary.

Education:
Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of a valid California or Nevada Class C Driver License desirable.

Possession of a Wastewater Treatment Operator-In-Training Certificate from California State Water Resources Control Board within 4 months from date of hire. Must obtain a Wastewater Treatment Operator Grade I Certificate issued by the California State Water Resources Control Board within eighteen (18) months of appointment to the classification unless the Department Manager provides extension of time period due to unique situation.

Possession of, or ability to obtain a forklift certification within six months of appointment.

Possession of, or ability to obtain a confined space certification within six months of appointment.

Persons employed in this classification are required to participate in Agency provided training to acquire basic First Aid and Cardiopulmonary Resuscitation (CPR) certificates during the initial 12 months of employment and continued maintenance of a valid certificate as a condition of employment for this position.

Possession of, or ability to obtain a 40-hour Hazwoper Hazardous Materials Technician Level III certification within six months of appointment.

Operator I

In addition to the qualifications for the Operator-In-Training:

Knowledge of:
- Basic mechanical, electrical and hydraulic principles including pumps and piping.
- Relevant software programs used in wastewater treatment operations.

JOB TITLE: Operator-In-Training/I/II/III

Ability to:

- Learn to perform a variety of semi-skilled and skilled tasks associated with the operation and maintenance of the Agency's wastewater treatment plant; monitor treatment plant operations; respond to alarms; collect and analyze samples.
- Learn all requirements and essential aspects of the job, learn and observe safety rules and identify hazards; intermittently locate, analyze, detect and diagnose problem equipment and determine solutions; locate, adjust and operate tools and equipment; intermittently access, review, interpret and enter or adjust information on documents and work orders, remember instructions and how to operate equipment; interpret and communicate technical and numerical information.
- Safely operate a variety of manual and mechanized tools and equipment.
- Learn to investigate equipment and equipment problems.
- Assist to make minor equipment repairs and adjustments.
- Learn to enter or record technical data and information.
- Maintain accurate records, reports and logs.
- Learn to interpret diagrams and technical instructions.
- Learn the safe handling of hazardous materials, liquids, solids and gases used in plant operations.
- Learn to safely operate a variety of manual and mechanized tools and equipment, including forklift, as needed.
- Learn to prioritize workload to meet deadlines.

Experience and Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying (equivalent to California State Water Resources Control Board requirements for certification). A typical way to obtain the required knowledge and abilities would be:

Experience:

One year of experience similar to an Operator-In-Training with T-TSA.

Education:

Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:

Possession of a valid California or Nevada Class C Driver License desirable.

Possession of a Wastewater Treatment Operator Grade I Certificate issued by the California State Water Resources Control Board. Must obtain a Wastewater Treatment Operator Grade II Certificate issued by the California State Water Resources Control Board within eighteen (18)

months of appointment to the classification unless the Department Manager provides extension of time period due to unique situation.

Possession of, or ability to obtain a forklift certification within six months of appointment.

Possession of, or ability to obtain a confined space certification within six months of appointment.

Persons employed in this classification are required to participate in Agency provided training to acquire basic First Aid and Cardiopulmonary Resuscitation (CPR) certificates during the initial 12 months of employment and continued maintenance of a valid certificate as a condition of employment for this position.

Possession of, or ability to obtain a 40-hour Hazwoper Hazardous Materials Technician Level III certification within six months of appointment.

Operator II

In addition to the qualifications for the Operator I:

Knowledge of:

- Basic principles and practices associated with operating a wastewater treatment plant and associated facilities.
- Proper handling of hazardous materials, liquids, solids and gases used in plant operations.
- Water quality testing procedures.

Ability to:

- On an ongoing basis, know and understand all requirements and essential aspects of the job including laws, regulations, rules and codes related to area of assignment; know and observe safety rules and identify hazards; intermittently locate, analyze, detect and diagnose problem equipment and determine solutions; problem solve issues related to area of assignment; remember various processes and requirements and how to operate equipment; intermittently access, review, and interpret and adjust or enter data on work orders, reports and other documents; identify, interpret and communicate technical and numerical information.
- Perform a variety of progressively more skilled tasks related to the operations of the wastewater treatment facility in a safe manner.
- Enter or record technical data and information.
- Assist with the investigation of equipment and equipment problems.
- Make minor equipment repairs and adjustments.
- Interpret diagrams and technical instructions.
- Safely operate a variety of manual and mechanized tools and equipment, including forklift, as needed.

- Prioritize workload to meet deadlines.

Experience and Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying (equivalent to California State Water Resources Control Board requirements for certification). A typical way to obtain the required knowledge and abilities would be:

Experience:
Eighteen months of experience similar to an Operator I with T-TSA.

Education:
Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of a valid California or Nevada Class C Driver License desirable.

Possession of a Wastewater Treatment Operator Grade II Certificate issued by the California State Water Resources Control Board. Must obtain a Wastewater Treatment Operator Grade III Certificate issued by the California State Water Resources Control Board within twenty-four (24) months of appointment to the classification unless the Department Manager provides extension of time period due to unique situation.

Possession of, or ability to obtain a forklift certification within six months of appointment.

Possession of, or ability to obtain a confined space certification within six months of appointment.

Persons employed in this classification are required to participate in Agency provided training to acquire basic First Aid and Cardiopulmonary Resuscitation (CPR) certificates during the initial 12 months of employment and continued maintenance of a valid certificate as a condition of employment for this position.

Possession of, or ability to obtain a 40-hour Hazwoper Hazardous Materials Technician Level III certification within six months of appointment.

Operator III

In addition to the qualifications for the Operator II:

Knowledge of:

- Methods and procedures for wastewater treatment.
- Methods and procedures for troubleshooting equipment associated with the operation of a wastewater treatment plant.
- Principles and practices of trend analysis.
- Emergency response procedures.
- Principles and practices of training and technical and functional supervision of less experienced staff.

Ability to:

- Interpret and apply a variety of instructions furnished in written, oral, diagram, or other form.
- Calculate figures and amounts including percentages, areas, circumferences, and volumes and apply the concepts of basic algebra and geometry.
- Act as Emergency Coordinator and respond to urgent situations, if assigned.
- Assist with the enforcement of safety policies and ensures standard operating procedures are followed.
- Serve as shift operator-in-charge, as needed, and provide technical or functional supervision of less experienced staff, with sufficient amount of Agency experience as determined by the Chief Plant Operator.
- Assist with the development and implementation of training for lower level Operators. Shut down areas of the system if needed.

Experience and Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying (equivalent to California State Water Resources Control Board requirements for certification). A typical way to obtain the required knowledge and abilities would be:

Experience:
Three years of experience similar to an Operator II with T- TSA.

Education:
Equivalent to completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:
Possession of a valid California or Nevada Class C Driver License desirable.

Possession of a Wastewater Treatment Operator Grade III Certificate issued by the California State Water Resources Control Board.

Possession of, or ability to obtain a forklift certification within six months of appointment.

JOB TITLE: Operator-In-Training/I/II/III

Possession of, or ability to obtain a confined space certification within six months of appointment.

Persons employed in this classification are required to participate in Agency provided training to acquire basic First Aid and Cardiopulmonary Resuscitation (CPR) certificates during the initial 12 months of employment and continued maintenance of a valid certificate as a condition of employment for this position.

Possession of, or ability to obtain a 40-hour Hazwoper Hazardous Materials Technician Level III certification within six months of appointment.

PHYSICAL REQUIREMENTS (for all Operator levels):

Position self and intermittently move so as to access, maintain, clean, repair and/or install equipment; intermittently move, traverse and position self around the office, control rooms, laboratory or job site while performing work activities and to reach needed items; work effectively at a desk or table in a control room, or while driving vehicles or operating equipment; position self to adjust equipment, use tools to review work of others or access low or high items; ascend and descend stairs, ladders or step stools to reach elevated platforms, equipment or other items and to access areas out of reach; manipulate, operate, activate and adjust equipment and tools; and move or transport weight of 50 pounds or less.

Ability to wear a self-contained breathing apparatus (SCBA) and Full-Face Air Purifying Respirator (APR).

WORKING/ENVIRONMENTAL CONDITIONS (for all Operator levels):

Work is performed in both indoor and outdoor environments with exposure to confined spaces and all weather conditions. Assignment includes working on or operating equipment and working on elevated platforms. Works a flexible, rotating schedule and/or shifts in order to accommodate a 24-hour, 7 day per week operation, to include weekends and holidays, as well as overtime work.

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Crystal Sublet, Finance and Administrative Manager
Item: V-2
Subject: Presentation and Discussion of Agency Sewer Connection Fee Study by HDR Engineering, Inc.

Background
At the March 16, 2022, Board of Directors meeting, there was direction provided by the board to solicit a proposal from HDR Engineering, Inc. (HDR) to perform a Sewer Connection Fee Study for review and consideration.

At the April 20, 2022, Board of Directors meeting, HDR's proposal was presented and approved by the Board to enlist HDR to perform T-TSA's Sewer Connection Fee Rate Study in the amount of $23,000 ($30,240 plus 10% contingency)

At the January 18, 2023, Board of Directors meeting, the Sewer Connection Fee Study draft was presented. The Board of Directors requested that the Sewer Connection Fee Study be tabled until we completed the Sewer Rate Fee Study and initiated the Proposition 218 Notice.

At the April 19, 2023, Board of Directors meeting, the Sewer Connection Fee Study discussions were brought back to the Board to allow for discussion from the Board of Directors and the public.

HDR has the technical and professional expertise to successfully conduct a Sewer Connection Fee Study. They are staffed with well qualified and nationally recognized utility rate and fee experts, as well as engineering experts to assist in developing the study. They have performed similar studies for other local districts to include the Tahoe City PUD, North Tahoe PUD, Truckee Sanitary District, Olympic Valley PSD and Alpine Springs County Water District.

With the collective involvement and support of HDR Engineering, T-TSA's staff and the Finance Committee, an updated draft presentation will be presented to the Board of Directors and public for discussion, feedback, and questions.

Fiscal Impact
None.

Attachments
HDR's Presentation for the Sewer Connection Fee Rate Study.

Recommendation
None, for discussion purposes only.

Review Tracking

Submitted By: _____
Crystal Sublet
Finance and Administration Manager

Approved By: _____
Richard Pallante
General Manager

Tahoe Truckee Sanitation Agency

Connection Fee Study

October 18, 2023

- Purpose of the Presentation
- Overview of the Connection Fee
- Summary of the Connection Fee Study
- Questions / Discussion

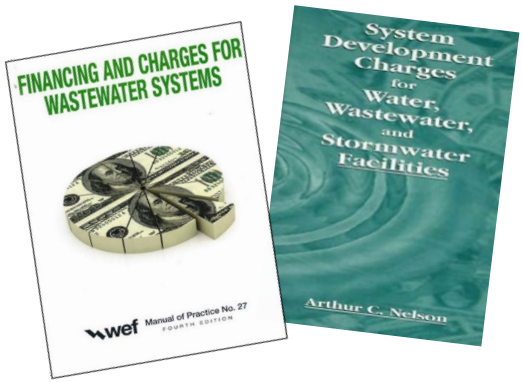
Purpose of the Presentation

- Provide an update on the connection fee analysis
  - Updated reserves as of June 30, 2023
    - Reduced fee calculation for Fund 2 reserves
  - Updated Construction in Progress
  - Updated assets with August 2023 ENR CCI 20-City Average
- Gain input and feedback
  - Overall approach and methodology
  - Calculated level of the updated connection fee
  - Level of fee for implementation
- Next steps
  - Present to Board
  - Set public hearing
  - Notify interested parties
  - Hold public hearing
  - Adopt connection fee at Board desired level

Sewer Connection Fees

Overview

- **Definition**
  - A one-time charge required of all new customers or existing customers requesting an increased level of service
  - Charge based on the value of the existing level of service plus any new infrastructure needed to serve them
- **Purpose**
  - To charge new customers a proportional share of the cost of infrastructure to serve their needs
    - Existing customers have funded current infrastructure
- **Legal Requirements (California Code (66013, 66016, 66022)**
  - Requires a reasonable relationship between fee charged and cost associated with providing capacity to the customer
- **Generally accepted methodologies**



Sewer Connection Fees

Formula

$$\frac{\text{Existing Investment (\$)}}{\text{Existing and Future EDUs}} + \frac{\text{Future CIP (\$)}}{\text{Future EDUs}} = \text{Connection Fee \$ per EDU}$$

- **Value of Existing System:**
  - Replacement cost new (RCN)
  - Less:
    - Developer/grant contributed
    - Assets < $5,000
    - Outstanding debt principal
    - Capital reserves (Fund 2)
  - Plus: Work in Progress
- **Future CIP:**
  - Current capital improvement plan
  - Proportion to serve growth
- **EDUs based on system capacity**
  - Sewer average day demand, per EDU of 200 gpd
  - Total permit capacity of 9.60 MGD

Sewer Connection Fees

System Planning Data

Sewer Connection Fee – EDUs			
Description	**Capacity in MGD**	**Average Daily Flow per EDU**	**Total EDUs**
Existing Flow	6.13	200	30,650
Future Flow	3.47	200	17,350
Permit Total Flow	**9.60**		**48,000**

- Based on 200 gpd/EDU and 9.6 MGD permit capacity
- 6.13 MGD based on average day flow at the plant

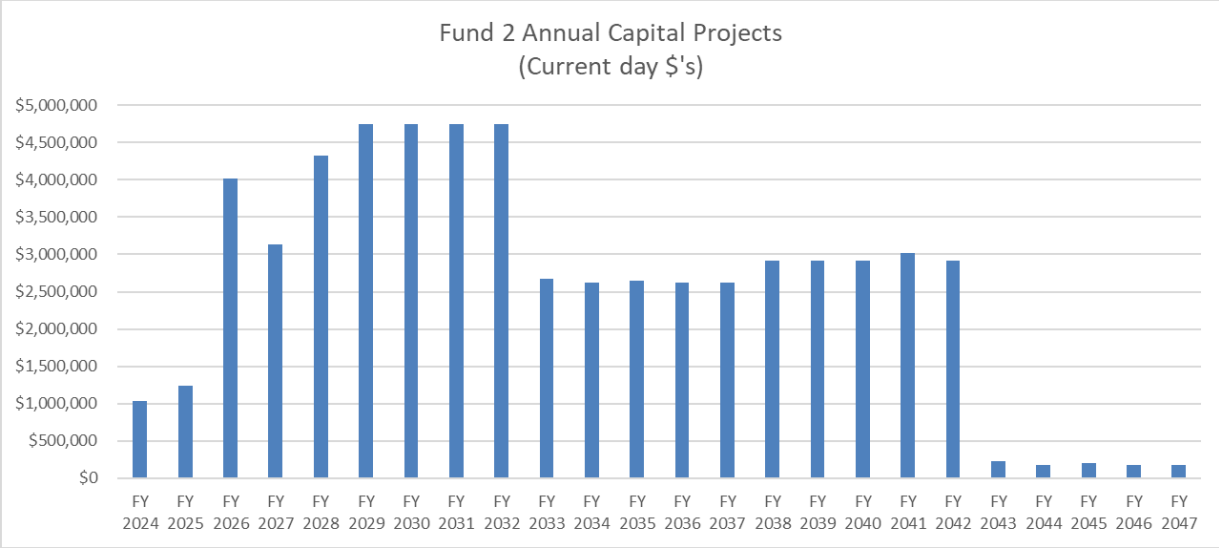
Sewer Connection Fee

Existing System Calculation

- **Assets as of June 2021**
  - 20-City ENR-CCI for August 1, 2023

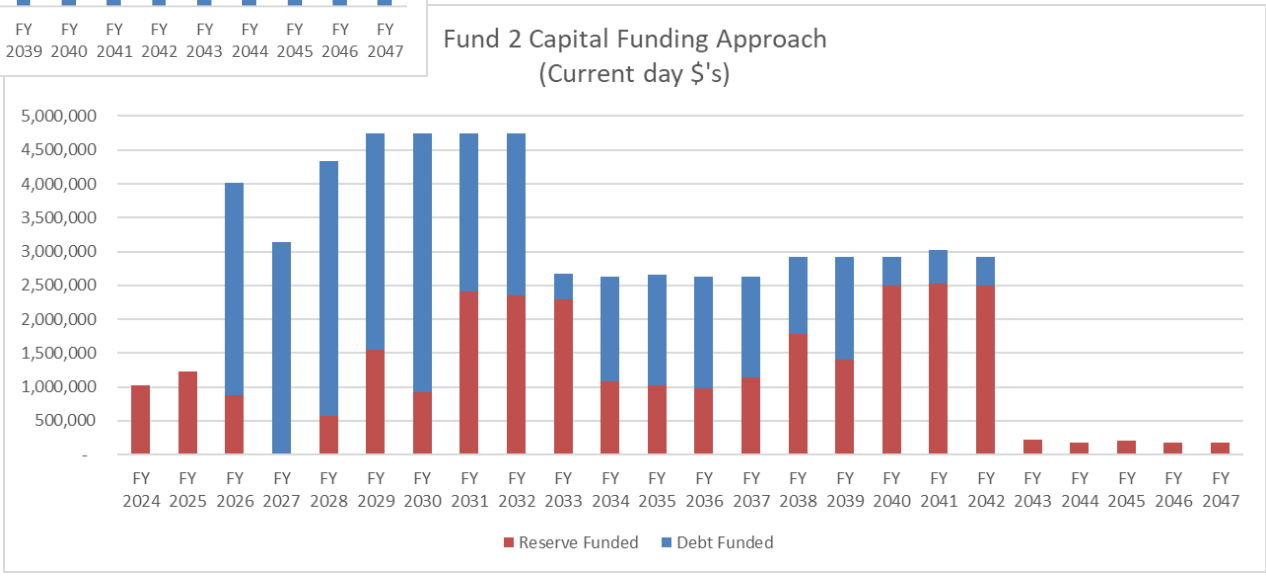
	Original Cost (OC)	Replacement Cost New (RCN)
Existing Plant	$147,212,478	$363,008,326
Plus: Work in Progress	3,507,039	3,507,039
Less: Contributed Capital	(11,600,000)	(19,615,513)
Less: Outstanding Debt Principal	(3,599,240)	(3,599,240)
Less: Reserves	(17,903,043)	(17,903,043)
Total Existing Plant	$117,617,234	$325,397,569
Total Existing and Future EDUs		48,000
Existing Sewer Connection Fee per EDU		**$6,779**

Fund 2 CIP and CIP Funding Plan



Example Projects – Next 5 Years

- Disinfection Project - $4.5M
- Digestion Improvement Project - $3.1M
- Equipment/Vehicle Warehouse - $2.5M
- Primary/Secondary Treatment Rehab Project - $1.4M



Sewer Connection Fee

Future Improvement Calculation

	Replacement Cost New (RCN)
Future Plant	
TRI	$6,919,200
WRP	17,396,600
Total Future Plant (TRI and WRP)	$24,315,800
Future EDUs	17,350
Future Sewer Connection Fee per EDU	$1,401
WRP New Facilities	$37,500,000
Total Existing and Future EDUs	48,000
New Facility Sewer Connection Fee per EDU	$781
Future Sewer Connection Fee per EDU	**$2,182**

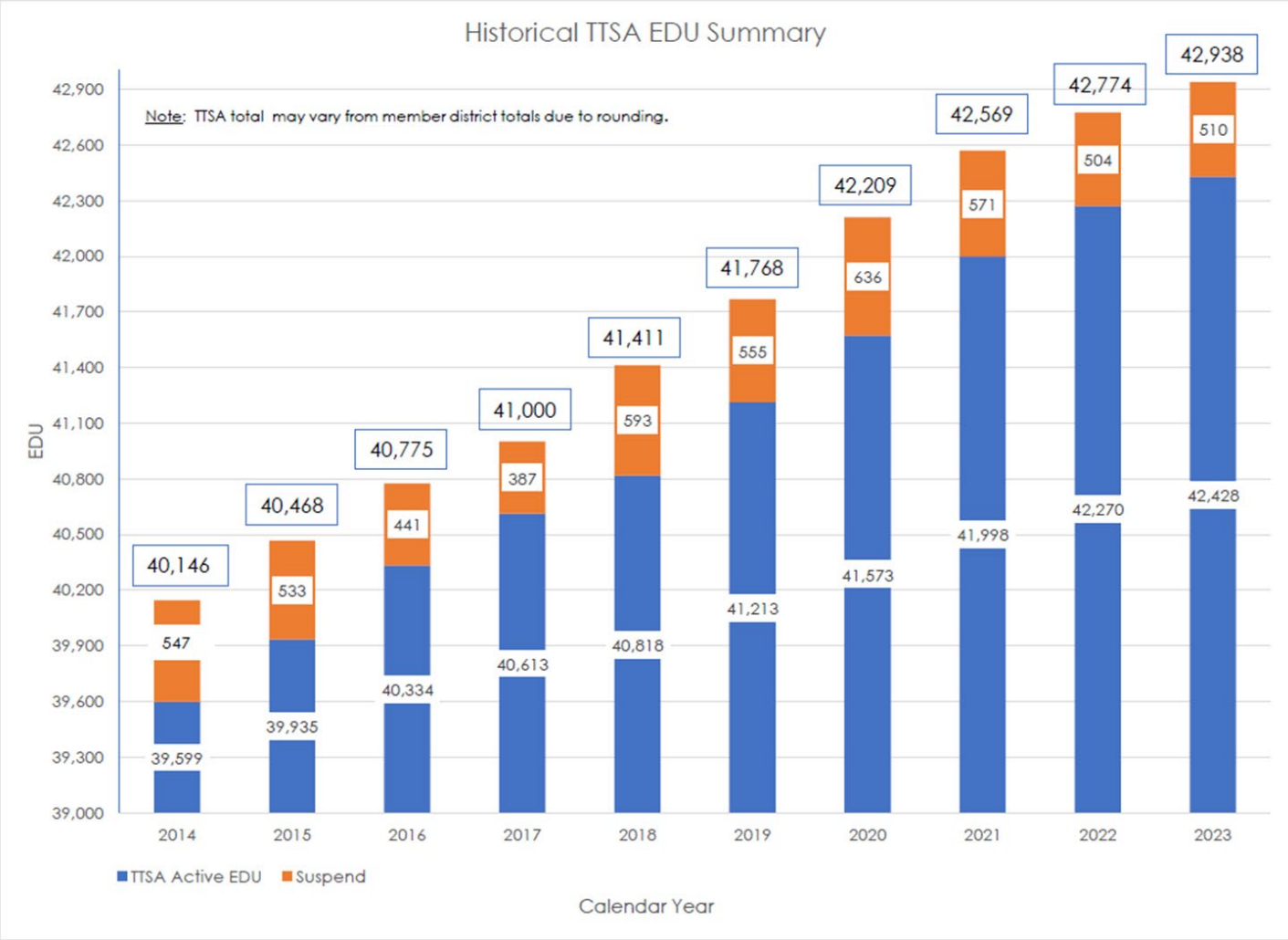
Sewer Connection Fee

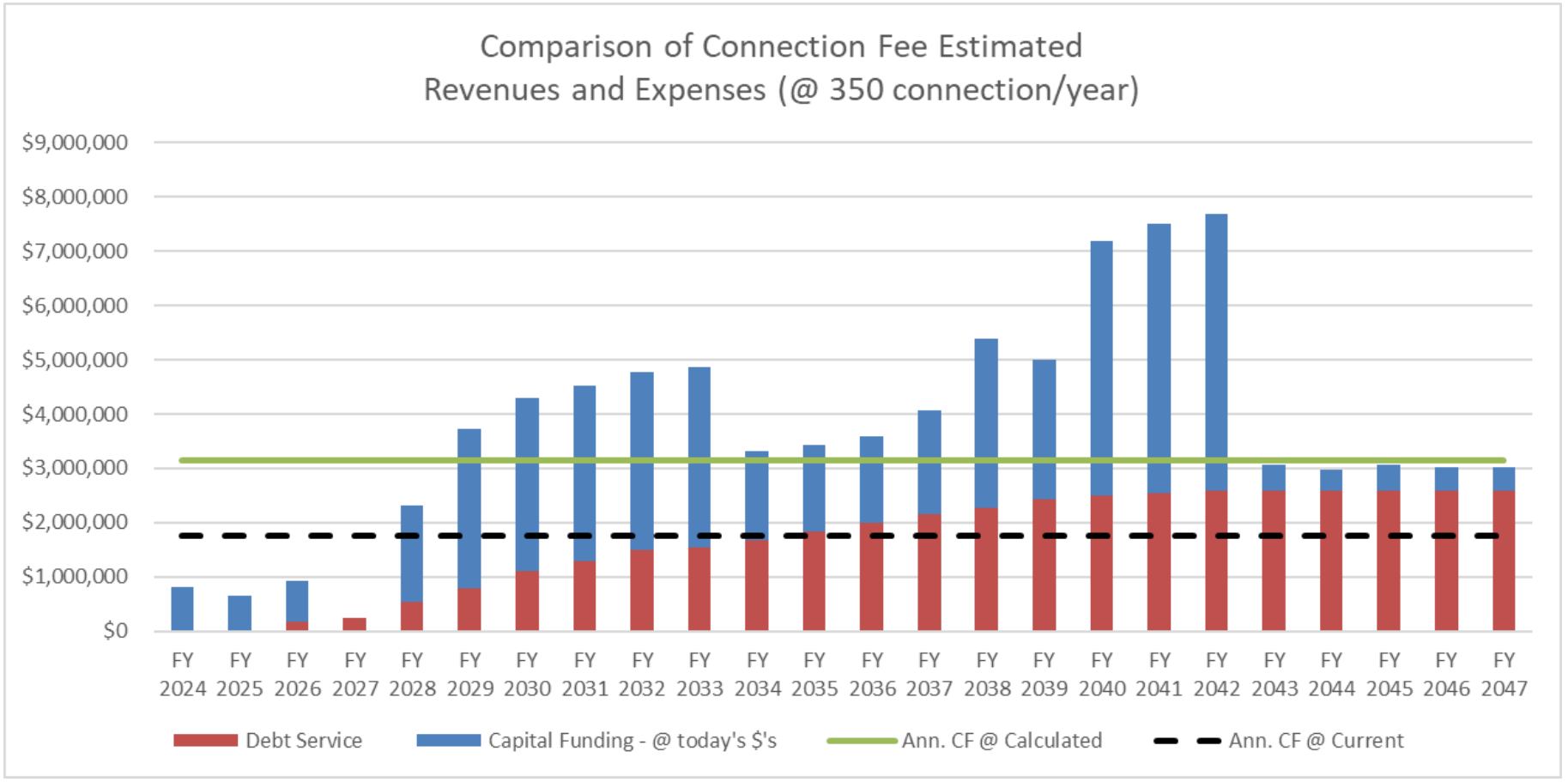
Calculation

- **Sum of existing and future is $8,961**
- **Current Fee is $5,000**
  - Maintained existing fee level at conclusion of 2018/19 fee study

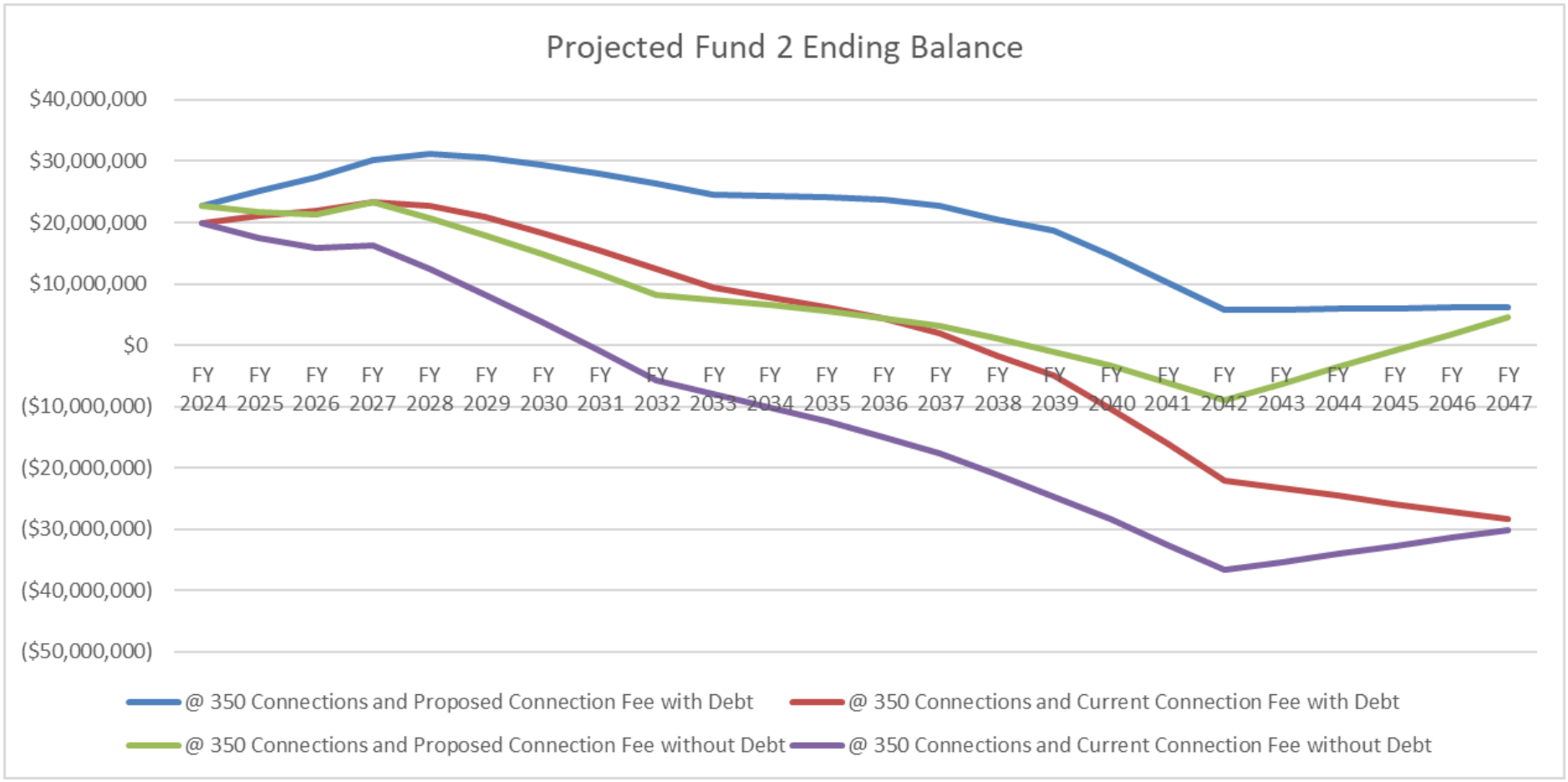
Existing Sewer Connection Fee per EDU	**$6,779**
Future Sewer Connection Fee per EDU	**$2,182**
Maximum Allowable Sewer Connection Fee per EDU	**$8,961**
Adopted 2019 Sewer Connection Fee per EDU	**$5,000**
$ Difference	$3,961
% Difference	79.2%

Current and Historical EDU Growth





- Expenses reflect use of Fund 2 reserves (capital funding) and annual debt service expense for financing capital improvements
  - Debt service assumption assumes 30 years @ 4.5% interest and total borrowing of ~$42 Mil in escalated $'s
- Revenues based on projected average connections (EDUs) of 350 per year based on last 8-year average



Connection fee calculation is not a cash flow analysis, it is based on the value of the existing and future capacity

Sewer Connection Fees

Implementation - Residential

Type of Connection	Units	Present Connection Fee [1]	Calculated Connection Fee [2]
Residential			
Minimum	Per living unit	$1,500	$2,690
Plus: Square footage	Per square footage	$1.75/sq. ft.	$3.14/sq. ft.
Additions (Not an ADU)			
Greater than 500 square feet	Per square footage	$1.75/sq. ft.	$3.14/sq. ft.
500 square feet or less		Exempt	Exempt
Accessory Dwelling Unit			
Minimum	Per living unit	$1,500	$2,690
Plus: Square footage	Per square footage	$1.75/sq. ft.	$3.14/sq. ft.
500 square feet or less		Exempt	Exempt

[1] $5,000 per unit ($1,500 + ($1.75 X 2,000 sq. ft.) = $5,000; Ordinance 1-2019
[2] $8,961 per unit ($2,690 + ($3.14 X 2,000 sq. ft.) = $8,961

Sewer Connection Fees

Exhibit A

Connection Type	TTSA Code	Units	Equivalent EDU Ratio	Existing Per Unit Charge ($)	Calculated Per Unit Charge ($)
Beauty/Barber Shop	A	# of service chairs	0.50	2,500.00	4,481.00
Commercial Establishments (1) (unless otherwise noted)	B	# of fixture units	0.10	500.00	896.00
Dump Station	D	# of stations	1.00	5,000.00	8,961.00
Restaurant or Bar	F	# of seats inside	0.10	500.00	896.00
	Z	# of seats outside	0.04	175.00	314.00
	Z	# of seats banquet	0.04	175.00	314.00
Grocery	G	# of fixture units	0.15	750.00	1,344.00
Industrial User	I	as calculated pursuant to Table A-2		5,000.00	8,961.00
Car Washes	J	# of bays, Automatic	1.50	7,500.00	13,442.00
		# of bays, Automatic - Recycled	1.20	6,000.00	10,754.00
		# of bays, Self-Serve	1.00	5,000.00	8,961.00
		# of bays, Self-Serve - Recycled	0.80	4,000.00	7,169.00
Campsite with Sewer Connection	K	# of sites	0.50	2,500.00	4,481.00
Laundromat	L	# of washing machines	1.00	5,000.00	8,961.00
Motel or Hotel Unit	M	# of units	0.50	2,500.00	4,481.00
Motel or Hotel Unit with Kitchen	N	# of units	0.66	3,300.00	5,914.00
Swimming Pool or Spa	P	# of P units, see table A-1		100.00	179.00
Campsite without Sewer Connection	Q	# of sites	0.38	1,875.00	3,360.00
Residential Unit (2)	R	# of units		1,500.00	2,690.00
		plus # square feet of living area		1.75	3.14
Other	S	As Determined by General Manager		TBD	TBD
Assembly Hall	T	# of seats	0.01	50.00	90.00

(1) Refer to Appendix A-1

(2) Connection Fees for Residential living space additions greater than 500 sq.ft. where sewer connection is already established will be charged $3.08/sq.ft.

Sewer Connection Fees

Exhibit A - 1 Plumbing Fixture Units

Description	Fixture Units Public
Bathtub or combination bath/shower	2
Clothes washer, domestic	3
Dental unit, cuspidor	1
Dishwasher, domestic, independent drain	2
Drinking fountain (each head)	0.5
Food waste disposer, commercial	3
Floor drains, emergency	0
Floor drains (each)	2
Shower, single-head trap	2
Multi-head, each additional	1
Lavatory	1
Lavatory in sets	2
Sink (bar)	2
Sink (commercial with food waste)	3
Sink (exam room)	1
Sink (domestic, with or w/out food waste disposer, dishwasher, or both)	2
Sink (laundry)	2
Sink (service or mop basin)	3
Sink (washup, flushing rim)	6
Sink (washup, each set faucets)	2
Urinal	2
Toilet (1.6 gpf, any type)	4
Toilet (>1.6 gpf, any type)	6
Swimming Pool "P" Units	
0 - 25,000 gallons	23
25,001 - 50,000 gallons	46
50,001 - 75,000 gallons	69
75,000 - 100,000 gallons	92
100,000 gallons and over	115
Spa "P" Units	
0 - 1,000 gallons	16
1,001 - 2,500 gallons	39
2,501 - 5,000 gallons	78
5,001 gallons and over	116

Multiple Use Credit (Applies to Multiple Use Fixtures Only)		
# of Restaurant Seats	# Fixture Unit Credits	
0-50	12*	
51-100	15	
101-200	21	
201-300	27	
301-400	33	
401-500	39	
501-600	45	
601-700	51	
701-800	57	
801-900	63	
901-1000	69	
1001-1100	75	
1101-1200	81	
Over 1201	Individually Reviewed and Rated	

*The above listed table represents the minimum business fixture units for each incremental seat count.

Exhibit A - 2 Industrial Charge

Flow:	Maximum Daily Flow (gallons per day) / 200 gallons per day	=	EDU_{Flow}		
COD:	Composite Sample COD Concentration (milligrams per liter) / 805 milligrams per liter	X	EDU_{Flow}	=	EDU_{COD}
TSS:	Composite Sample TSS Concentration (milligrams per liter) / 362 milligrams per liter	X	EDU_{Flow}	=	EDU_{TSS}
TDS:	Composite Sample TDS Concentration (milligrams per liter) / 428 milligrams per liter	X	EDU_{Flow}	=	EDU_{TDS}
TN:	Composite Sample TN Concentration (milligrams per liter) / 78 milligrams per liter	X	EDU_{Flow}	=	EDU_{TN}
TP:	Composite Sample TP Concentration (milligrams per liter) / 8.4 milligrams per liter	X	EDU_{Flow}	=	EDU_{TP}

Next Steps

- Gain feedback and input on the Connection Fee
  - Overall approach
  - Updates to the calculation
  - Calculated level and proposed fee level
- Finalize technical analyses
- Finalize written report
- Present final recommendations to the Board (Jan 2024)
  - Board accepts the connection fee study
  - Sets public hearing date (Feb 2024)
  - Hold public hearing and adopt connection fee if desired

Thank You and Discussion

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Scott Fleming, P.E., Senior Engineer
Item: V-3
Subject: Approval to award the 2023 Sodium Hypochlorite Foundation Project.

Background
The Sodium Hypochlorite Foundation Project provides for the construction of a reinforced structural concrete foundation to support three sodium hypochlorite storage tanks. The proposed foundation is located between the Advanced Waste Treatment (AWT) Building and Corridor 6A.

If awarded by the Board, field work is scheduled to occur between October 30, 2023, and December 22, 2023.

One bid for the project was received on September 28, 2023, as follows:

- Ruppert, Inc.: $398,350.00

Ruppert, Inc. was found to be the lowest responsible and responsive bidder.

Fiscal Impact
The total bid price of $398,350.00 is more than the engineer's estimate of $240,000.00. The bid price for the construction of the pad and the purchase of the tanks to store sodium hypochlorite combined are approximately $618,000.00. The budget for the total project is $500,000.00.

Attachment
Sodium Hypochlorite Foundation Project Drawings (14 pages).

Recommendation
Management and Staff recommend that the Board provide approval to award the bid for the Sodium Hypochlorite Foundation Project to Ruppert, Inc. in the amount of $398,350.00 and approve a contract amount of up to $440,000.00 ($398,350.00 bid plus approximately 10% contingency).

Review Tracking

Submitted By: Scott Fleming
Scott Fleming, P.E.
Senior Engineer

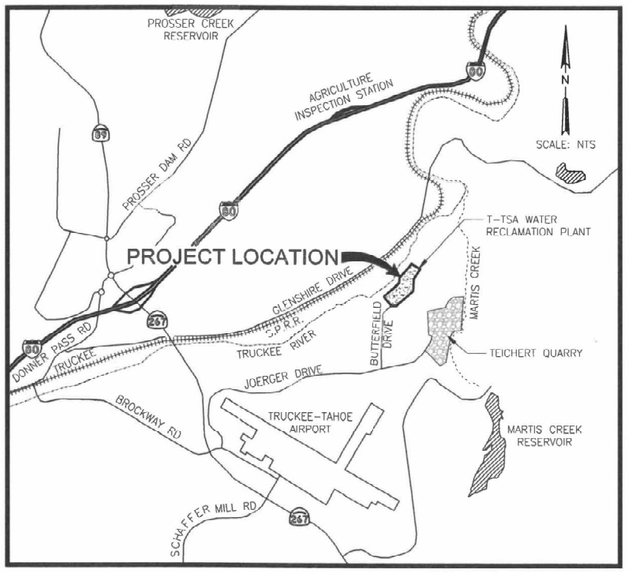
Approved By:
Richard Pallante
General Manager

TAHOE-TRUCKEE SANITATION AGENCY

REGIONAL WATER RECLAMATION PLANT

SODIUM HYPOCHLORITE FOUNDATION PROJECT

SEPTEMBER 2023

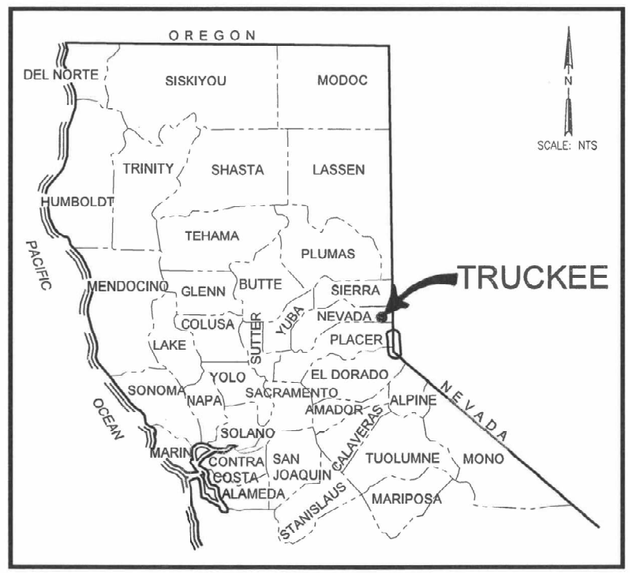


LOCATION MAP

BOARD OF DIRECTORS

PRESIDENT	DAN WILKINS
VICE PRESIDENT	BLAKE TRESAN
DIRECTOR	DALE COX
DIRECTOR	DAVID SMELSER
DIRECTOR	SCOTT WILSON

APPROVED: _____
GENERAL MANAGER
RICHARD PALLANTE



VICINITY MAP

Tahoe-Truckee Sanitation Agency
13720 Butterfield Drive
Truckee, California 96161
(530) 587-2525

Carollo Engineers, Inc.
50 West Liberty Street, Suite 300
Reno, Nevada 89501
(775) 324-4427

REGISTERED PROFESSIONAL ENGINEER SCOTT J. FLEMING Exp. 3-31-24 CIVIL STATE OF CALIFORNIA
9/14/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT
GENERAL
COVER SHEET, LOCATION MAP AND VICINITY MAP

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 ——— 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

NO.	REVISIONS	APPROVED BY	DATE

DESIGNED BY: SF | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 1 OF 14
DWG NO. G-001
DATE SEPTEMEBER 2023

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SHEET INDEX

SHEET	DWG NO.	TITLE
GENERAL		
1	G-001	COVER SHEET, LOCATION MAP AND VICINITY MAP
2	G-002	SHEET INDEX, ABBREVIATIONS, LEGEND, AND NOTES
3	G-003	STRUCTURAL NOTES
CIVIL		
4	49-C-201	OVERALL SITE PLAN AND SURVEY CONTROL
5	49-C-202	DEMOLITION AND EROSION CONTROL PLAN - EXISTING SITE
6	49-C-203	SODIUM HYPOCHLORITE SITE PLAN
7	49-C-301	SODIUM HYPOCHLORITE ELEVATION
8	49-C-401	CIVIL DETAILS
STRUCTURAL		
9	49-S-201	STRUCTURAL PLAN
10	49-S-301	STRUCTURAL SECTIONS
11	49-S-401	STRUCTURAL DETAILS
12	49-S-402	STRUCTURAL DETAILS
ELECTRICAL		
13	49-E-201	ELECTRICAL PLAN
14	49-E-401	ELECTRICAL DETAILS

DRAWING NUMBER DESIGNATION

49-S-201

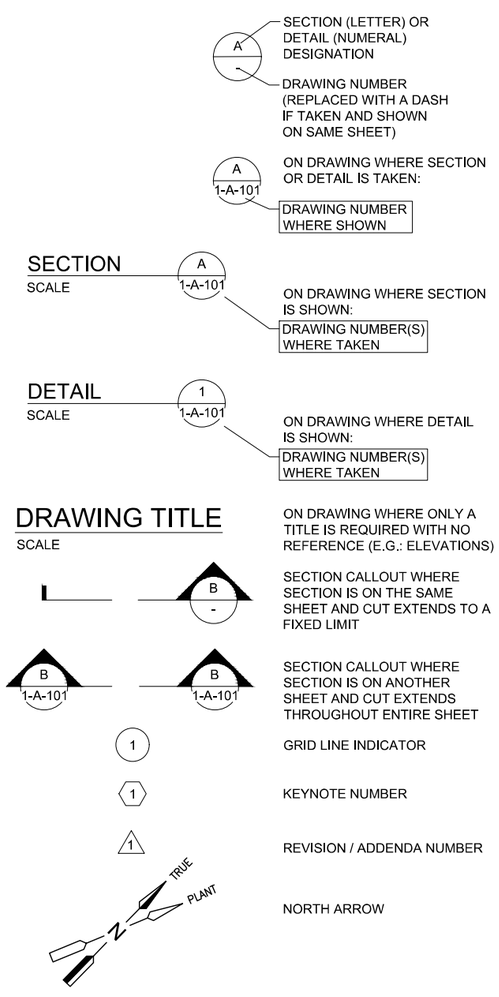
- 49 — FACILITY NUMBER / NAME: 49 SODIUM HYPOCHLORITE STORAGE
- S — DISCIPLINE
- 201 — DRAWING NUMBER

A	ARCHITECTURAL
C	CIVIL
D	DEMOLITION
E	ELECTRICAL
G	GENERAL
H	HVAC / PLUMBING
N	INSTRUMENTATION AND CONTROLS
R	RENDERING
S	STRUCTURAL
M	MECHANICAL
Y	YARD PIPING

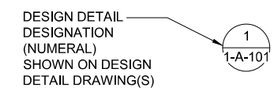
GENERAL NOTES:

1. EXISTING PIPING, EQUIPMENT, TOPOGRAPHY, SITE FEATURES, AND STRUCTURES ARE SHOWN SCREENED AND/OR LIGHT LINED. NEW PIPING, EQUIPMENT, TOPOGRAPHY, SITE FEATURES, AND STRUCTURES ARE SHOWN HEAVY-LINED.
2. CONTRACTOR SHALL FIELD VERIFY SCREENED ELEMENTS USED IN DRAWINGS TO REFLECT EXISTING FACILITIES OR INFORMATION PRIOR TO USING THE INFORMATION FOR ANY PURPOSE. NO WARRANTY IS EXPRESSED OR IMPLIED AS TO THE ACCURACY OF THE INFORMATION CONVEYED IN THE SCREENED DRAWINGS.
3. EXISTING UNDERGROUND UTILITIES SHOWN HAVE BEEN OBTAINED FROM RECORD DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ANY UTILITIES IN CONFLICT FOR DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
4. MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
5. STAGING AREA SHALL BE FOR CONTRACTOR'S EMPLOYEE PARKING, CONTRACTOR'S TRAILERS, EQUIPMENT, AND ON-SITE STORAGE OF MATERIALS DURING CONSTRUCTION. THE STOCK AND SPOIL PILE AREA(S) SHALL BE FOR STORAGE OF SOIL GENERATED FROM THE PROJECT EXCAVATION. CONTRACTOR SHALL NOT IMPORT SOIL FROM NON-AGENCY PROJECTS TO THE SITE FOR STORAGE. THE AGENCY WILL TAKE OWNERSHIP OF THE STOCK AND SPOIL PILE UPON COMPLETION OF THE PROJECT. SEE DRAWINGS FOR COMPLETE REQUIREMENTS.
6. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
7. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION.
9. THIS IS A STANDARD LEGEND SHEET AND SOME SYMBOLS MAY APPEAR ON THIS SHEET AND NOT BE USED ON THE PLANS.

SECTION / DETAIL DESIGNATIONS



DESIGN / DETAIL DESIGNATION



NOTES:

1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN.
2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNONYMOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS AND CONTRACT DOCUMENTS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

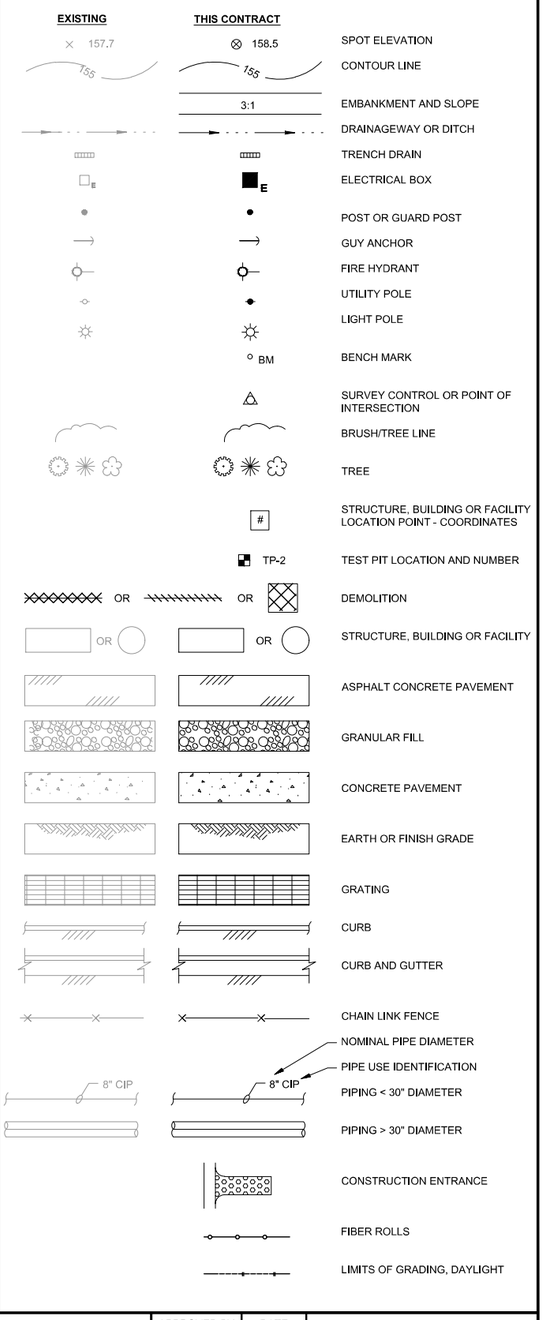
ABBREVIATIONS

AB	ANCHOR BOLT, AGGREGATE BASE	ENGR	ENGINEER	PLYWD	PLYWOOD
AC	ASPHALTIC CONCRETE	EP	EDGE OF PAVEMENT	PRCST	PRECAST
ACI	AMERICAN CONCRETE INSTITUTE	EQ	EQUAL	PREFAB	PREFABRICATED
ADD	ADDITIONAL	EQL SP	EQUALLY SPACED	PRESS	PRESSURE
ADH AB	ADHESIVE ANCHOR BOLT	EQPT	EQUIPMENT	PROJ	PROJECT
ADJ	ADJACENT, ADJUSTABLE	EW	EACH WAY	PROP	PROPERTY
AFF	ABOVE FINISH FLOOR	EXC	EXCAVATE	PSF	POUNDS PER SQUARE FOOT
AFG	ABOVE FINISH GRADE	EXP	EXPOSED, EXPANSION	PSI	POUNDS PER SQUARE INCH
AGG	AGGREGATE	EXP JT	EXPANSION JOINT	PT	PRESSURE TREATED
AHR	ANCHOR	EXIST	EXISTING	PVC	POLYVINYL CHLORIDE PLASTIC
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FACT	FACTORY	PVMT	PAVEMENT
		FB	FLAT BAR	RC	REINFORCED CONCRETE
AL	ALUMINUM	FDN	FOUNDATION	RCP	REINFORCED CONCRETE PIPE
ALTN	ALTERNATE	FF	FINISIH FLOOR	RD	ROAD, ROOF DRAIN
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	FG	FINISH GRADE	REF	REFER OR REFERENCE
		FHY	FIRE HYDRANT	REINF	REINFORCED, REINFORCING
APPROX	APPROXIMATE	FIG	FIGURE	REQD	REQUIRED
APVD	APPROVED	FL	FLOOR	RO	ROUGH OPENING
ARCH	ARCHITECTURAL	FLL	FLOW LINE	RST	REINFORCING STEEL
ASSY	ASSEMBLY	FNSH	FINISH	RTN	RETURN
AUTO	AUTOMATIC	FOC	FACE OF CONCRETE	R/W	RIGHT-OF-WAY
AUX	AUXILIARY	FT	FOOT OR FEET	S	I-BEAM, SOUTH
AWG	AMERICAN WIRE GAUGE	FTG	FOOTING	SA	SAMPLE
AWS	AMERICAN WELDING SOCIETY	FWD	FORWARD	SCH	SCHEDULE
AWT	ADVANCED WATER TREATMENT	°F	DEGREES FAHRENHEIT	SECT	SECTION
BLDG	BUILDING	GAL	GALLON	SH	SHEET
BM	BENCHMARK	GALV	GALVANIZED	SHC	SODIUM HYPOCHLORITE
BOT	BOTTOM	GRTG	GRATING	SIM	SIMILAR
BSP	BLACK STEEL PIPE	GVL	GRAVEL	SJI	STEEL JOIST INSTITUTE
C	CHANNEL (BEAM)	GW	GROUND WATER	SLP	SLOPE
CFM	CUBIC FEET PER MINUTES	HAS	HEADED ANCHOR STUD	SPEC	SPECIFICATIONS
CFS	CUBIC FEET PER SECOND	HDW	HARDWARE	SPLY	SUPPLY
CHEM	CHEMICAL	HGT	HEIGHT	SQ	SQUARE
CHK	CHECKED	HM	HOLLOW METAL	SQ FT	SQUARE FOOT
CI	CAST IRON	HORIZ	HORIZONTAL	SQ IN	SQUARE INCH
CIMJ	CAST IRON MECHANICAL JOINT	HT	HEIGHT	SST	STAINLESS STEEL
CIP	CAST IRON PIPE	I&C	INSTRUMENTATION & CONTROL	STA	STATION
CJ	CONSTRUCTION JOINT	IBC	INTERNATIONAL BUILDING CODE	STD	STANDARD
CLR	CLEAR	ID	INSIDE DIAMETER	STIF	STIFFENER
CL OR C	℄CENTERLINE	IE	INVERT ELEVATION	STL	STEEL
CMP	CORRUGATED METAL PIPE	IF	INSIDE FACE	STR	STRAIGHT
CMU	CONCRETE MASONRY UNIT	IN	INCH, INCHES	STRL	STRUCTURAL
COL	COLUMN	INV	INVERT	STRUC	STRUCTURE
CONC	CONCRETE	JT	JOINT	SYMM	SYMMETRICAL
CONN	CONNECTION	KIP	THOUSAND POUNDS	TBG	TUBING
CONT	CONTINUOUS, CONTINUATION	L	LEFT, ANGLE, LENGTH	TBR	TO BE REMOVED
COORD	COORDINATE	LB	POUNDS	T&B	TOP AND BOTTOM
COP	COPPER	LB/CU FT	POUNDS PER CUBIC FOOT	TC	TOP OF CURB
CPLG	COUPLING	LF	LINEAR FEET	TECH	TECHNICAL
CPVC	CHLORINATED POLYVINYL CHLORIDE	LH	LEFT HAND	TEMP	TEMPERATURE
CRS	COLD ROLLED STEEL	LONG	LONGITUDINAL	TF	TOP FACE
CS	HYPOCHLORITE SOLUTION	LR	LONG RADIUS	THD	THREAD
CTRD	CENTERED	MATL	MATERIAL	THK	THICK
CTR	CENTER	MAX	MAXIMUM	TOC	TOP OF CONCRETE
C TO C	CENTER TO CENTER	MB	MACHINE BOLT	TOS	TOP OF STEEL OR STRUCTURE
CU	CUBIC	MECH	MECHANICAL	TST	TOP OF STEEL
CU FT	CUBIC FOOT	MFR	MANUFACTURER	TT	THRUST TIE
CU IN	CUBIC INCH	MIN	MINIMUM, MINUTE	T-TSA	TAHOE-TRUCKEE SANITATION AGENCY
CU YD	CUBIC YARD	MISC	MISCELLANEOUS		
CULV	CULVERT	MJ	MECHANICAL JOINT	TYP	TYPICAL
CW	COLD WATER	MSRY	MASONRY	UNO	UNLESS NOTED OTHERWISE
DBA	DEFORMED BAR ANCHOR	MO	MASONRY OPENING	VERT	VERTICAL
DBL	DOUBLE	N	NORTH	W/	WITH
DET	DETAIL	NO.	NUMBER	W	WIDE FLANGE (BEAM), WEST
DI	DUCTILE IRON	NPT	NATIONAL PIPE THREAD	WD	WOOD
DIA	DIAMETER	NTS	NOT TO SCALE	WSP	WELDED STEEL PIPE
DIAG	DIAGONAL	OC	ON CENTER	WT	WEIGHT
DIMJ	DUCTILE IRON MECHANICAL JOINT	OD	OUTSIDE DIAMETER	WWF	WELDED WIRE FABRIC
DIP	DUCTILE IRON PIPE	OF	OUTSIDE FACE	YD	YARD
DIR	DIRECTION	OG	ORIGINAL GROUND		
DJ	DISMANTLING JOINT	OH	OVERHEAD		
DN	DOWN	OPNG	OPENING		
DR	DRAWN	PE	PLAIN END		
DWG	DRAWING	PENT	PENETRATION		
EA	EACH	PI	POINT OF INTERSECTION		
EF	EACH FACE	P&ID	PROCESS & INSTRUMENTATION DIAGRAM		
EFF	EFFLUENT				
EL	ELEVATION	PJF	PREMOLDED JOINT FILLER		
ELEC	ELECTRIC, ELECTRICAL	PL	PLATE (STEEL), PROPERTY LINE		

GENERAL NOTES:

1. THIS IS A STANDARD ABBREVIATIONS LIST. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND MAY NOT BE USED ON THIS PROJECT.
2. CONTACT THE ENGINEER FOR ABBREVIATIONS NOT LISTED.

LEGEND



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Tahoe-Truckee Sanitation Agency
13720 Butterfield Drive
Truckee, California 96161
(530) 587-2525

Carollo Engineers, Inc.
50 West Liberty Street, Suite 300
Reno, Nevada 89501
(775) 324-4427

REGISTERED PROFESSIONAL ENGINEER — SCOTT J. FLEMING — No. 21670 — Exp. 3-31-24 — CIVIL — STATE OF CALIFORNIA

9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

GENERAL

SHEET INDEX, ABBREVIATIONS, LEGEND, AND NOTES

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING

0 — 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

NO.	REVISIONS	APPROVED BY	DATE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
SF	SF	AC	RP

SHEET 2 OF 14

DWG NO. G-002

DATE SEPTEMEBER 2023

GENERAL NOTES:

1. USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH PROJECT DRAWINGS BY OTHER DISCIPLINES AND WITH THE SPECIFICATIONS.
2. UNLESS DETAILED, SPECIFIED, OR INDICATED OTHERWISE, CONSTRUCTION SHALL BE AS INDICATED IN THE GENERAL NOTES AND TYPICAL DETAILS.
3. PRESENTATION CONVENTIONS FOR STRUCTURAL DRAWINGS:
   - A. SCREENED LINE WORK INDICATES EXISTING CONDITIONS.
   - B. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED SIZES.
   - C. PLANS ARE TREATED AS HORIZONTAL SECTIONS. (I.E.: "PLAN AT ELEVATION 110" SHOWS CONSTRUCTION AT AND BELOW ELEVATION 110.")
4. VERIFY DIMENSIONS AND CONDITIONS BEFORE BEGINNING WORK. ADVISE ENGINEER IMMEDIATELY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DIMENSIONS, AND INFORMATION SHOWN ON THESE DRAWINGS. CONFIRM THE FOLLOWING BEFORE PREPARATION AND SUBMITTAL OF SHOP DRAWINGS:
   - A. DIMENSIONS AND WEIGHTS FOR EQUIPMENT SELECTED.
   - B. SIZES AND LOCATIONS OF EQUIPMENT PADS FOR EQUIPMENT SELECTED.
5. TYPICAL DETAILS ARE INTENDED TO APPLY AT LOCATIONS DESCRIBED BY THEIR TITLES, EVEN WHEN NOT SPECIFICALLY REFERENCED OF THE DRAWINGS.
   - A. IN STRUCTURAL TYPICAL DETAILS, ORIENTATION OF BARS IN EACH MAT OF REINFORCEMENT (WHETHER "LINES" OR "DOTS" ARE CLOSER TO THE FACE OF THE CONCRETE) IS GENERALLY ARBITRARY. SEE DRAWINGS OF EACH STRUCTURE FOR ORIENTATION REQUIRED AT THAT STRUCTURE.
6. SEE CIVIL DRAWINGS FOR STRUCTURE COORDINATES.
7. DRAWINGS PREPARED BY OTHER DISCIPLINES INCLUDE OPENINGS, ANCHORS, PIPES, CONDUIT, AND OTHER ITEMS THAT ARE EMBEDDED INTO OR PASS THROUGH STRUCTURES.
   - A. CONFIRM SIZE AND LOCATIONS OF OPENINGS, PENETRATIONS AND EMBEDMENT FOR ITEMS AND EQUIPMENT FURNISHED.
   - B. IN GENERAL, OPENINGS, EMBEDMENTS, AND PENETRATIONS LESS THAN 12 INCHES IN DIAMETER ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS.
   - C. SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS, PIPE SUPPORTS, AND ASSOCIATED STRUCTURAL REQUIREMENTS.
   - D. SEE MECHANICAL DRAWINGS FOR EQUIPMENT PADS AND PIPE SUPPORTS.

STRUCTURAL DESIGN CRITERIA - GENERAL:

SEE DRAWINGS OF INDIVIDUAL STRUCTURES FOR SPECIFIC DESIGN CRITERIA BASED ON THESE OVERALL CRITERIA FOR THE SITE.

1. BUILDING CODE:
   - A. 2022 CALIFORNIA BUILDING CODE WITH ASCE 7-16.
   - B. LOCAL AMENDMENTS: TOWN OF TRUCKEE.
2. STRUCTURE RISK CATEGORY: III.
3. DEAD LOADS: CALCULATED FOR STRUCTURE SELF-WEIGHT.
4. LIVE LOADS: (REDUCTIONS NOT USED).
   - A. FLOOR LIVE LOAD: 100 PSF.
   - B. GRATING AND CHECKERED PLATE: 100 PSF (UNO).
   - C. ROOF LIVE LOAD: SEE PLANS (20 PSF MINIMUM).
   - D. EQUIPMENT LOADS: SEE PLANS.
   - E. CONCENTRATED AND IMPACT LOADS: SEE PLANS.
5. FLUID PRESSURE LOADS: 63 PSF/FT (UNO).
6. SNOW LOAD DATA:
   - A. GROUND SNOW LOAD, Pg = 171 PSF.
   - B. SNOW EXPOSURE FACTOR, Ce = 1.0.
   - C. FLAT ROOF SNOW LOAD: 140 PSF (MINIMUM).
7. WIND DESIGN DATA:
   - A. SPECIAL WIND REGION: NO.
   - B. WIND-BORNE DEBRIS REGION: NO.
   - C. BASIC WIND SPEED (3 SECOND GUST, 33 FEET ABOVE GROUND): 102 MPH.
8. EARTHQUAKE DESIGN DATA:

	0.2 SECOND	*1.0 SECOND
A. SITE CLASS: C.		
B. MAPPED SPECTRAL RESPONSE ACCELERATIONS:	Ss = 1.367 g	S1 = 0.452 g
C. SITE COEFFICIENTS:	Fa = 1.2	Fv = 1.5
D. MAXIMUM CONSIDERED ACCELERATIONS:*	Sms = 1.640 g	Sm1 = 00.45 g
E. DESIGN SPECTRAL RESPONSE ACCELERATIONS:*	Sds = 1.367 g	Sd1 = 2 g

(* 5% DAMPED)

9. FLOOD LOADS:
   - A. FLOOD HAZARD AREA: NO.
10. RAIN LOADS:
    - A. DESIGN RAINFALL INTENSITY: i = 1.59 INCHES / HOUR. (100 YEAR / 1 HOUR EVENT)
11. ICE LOADS:
    - A. NOMINAL UNIFORM ICE THICKNESS W/ 3-SECOND WIND GUST: 0 INCHES / 30 MPH.
    - B. ICE DENSITY FOR CALCULATING ICE WEIGHT: 56 PCF (MIN)
12. CONSTRUCTION LOADS:
    - A. STRUCTURES HAVE BEEN DESIGNED FOR OPERATING LOADS ON COMPLETED FACILITIES. UNTIL CONSTRUCTION IS COMPLETE AND MEMBERS HAVE ACHIEVED THEIR DESIGN STRENGTH, PROTECT STRUCTURES AS REQUIRED BY SHORING, BRACING, AND BALANCING.

GEOTECHINCAL REPORT / FOUNDATION DESIGN CRITERIA:

1. GEOTECHINCAL INVESTIGATION REPORT:

   PREPARED BY: BLACK EAGLE CONSULTING
   DATED: SEPTEMBER 8, 2023.
2. FOUNDATION DESIGNS ARE BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT.
   - A. NET ALLOWABLE BEARING PRESSURE: 3,000 PSF.
   - B. FROST DEPTH: 18 INCHES.
   - C. LATERAL EARTH PRESSURE (UNO):
     SURCHARGE: EQUIVALENT TO 2 FEET OF SOIL ABOVE FINISHED GRADE.

	STATIC
ACTIVE (PSF/FT):	35
PASSIVE (PSF/FT):	300
SLIDING COEFFICIENT OF FRICTION:	0.45

TYPICAL STRUCTURAL MATERIALS:

1. MATERIALS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ONT THE DRAWINGS.
2. SEE PROJECT SPECIFICATIONS AND NOTES ON DRAWINGS OF SPECIFIC STRUCTURES FOR DETAILED AND LOCATION-SPECIFIC REQUIREMENTS.

REINFORCING STEEL (FOR CONCRETE AND MASONRY):

1. DEFORMED BARS:
   - A. TYPICAL: ASTM A 615, GRADE 60.
   - B. WHERE INDICATED ON THE DRAWINGS: ASTM A 706.
2. WELDED WIRE FABRIC: ASTM A 1064.

CONCRETE:

1. NORMAL DENSITY.
2. MINIMUM SPECIFIED CONCRETE COMPRESSIVE STRENGTH, f'c (AT 28 DAYS UNO).
   - A. STRUCTURES: f'c = 4,500PSI. (1)

STRUCTURAL STEEL:

1. CONNECTIONS:
   - A. BOLTS - STEEL TO STEEL:
     ASTM F 3125 GRADE A325 HIGH-STRENGTH BOLTS, WITH LOAD INDICATOR WASHERS.
   - B. BOLTS - STEEL TO CONCRETE OR MASONRY:
     ANCHOR BOLTS WITH HEX FORGED HEAD.
     ASTM F 1554, GRADE 36 GALVANIZED.
   - C. WELDS - SHIELDED METAL ARC PROCESS USING E70-XX ELECTRODES.

STAINLESS STEEL:

1. ANSI TYPE 316/316L EXCEPT WHERE TYPE 304/304L IS INDICATED ON THE DRAWINGS.
2. SECTIONS: SHAPES AND BARS: ASTM A 276.
3. BOLTED CONNECTIONS - BOLTS AND ANCHOR BOLTS:
   - A. MATCH ALLOY OF THE STRUCTURAL MEMBERS CONNECTED.
   - B. TYPE 316/316L: ASTM F 593, GRADE B8M, CLASS 1, HEAVY HEX.
   - C. TYPE 304/304L: ASTM F 593, GRADE B8, CLASS 1, HEAVY HEX.
4. WELDED CONNECTIONS:
   - A. TYPE 316L: E316L-15 ELECTRODES.
   - B. TYPE 304L: E304L-15 ELECTRODES.

CONSTRUCTION:

CONFORM TO THE FOLLOWING REQUIREMENTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

EXCAVATION AND BACKFILLING:

1. EXPOSE AND PREPARE SUBGRADE AS SHOWN ON THE DRAWINGS AND SPECIFIED. OBTAIN ENGINEER'S OBSERVATION OF SUBGRADE SURFACES, AS EXPOSED AND AS PREPARED, BEFORE PROCEEDING WITH FOUNDATION CONSTRUCTION.
2. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL STRUCTURES SUPPORTING THE TOP OF THE WALL ARE IN PLACE, ARE COMPLETE, AND (IN THE CASE OF CONCRETE) HAVE CURED TO THEIR MAXIMUM SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
3. WHERE BACKFILL MUST BE PLACED AGAINST WALLS BEFORE STRUCTURES ABOVE ARE COMPLETE, PROVIDE BRACING FOR WALLS. KEEP BRACING IN PLACE UNTIL THE STRUCTURE ABOVE IS COMPLETE AND (IN THE CASE OF CONCRETE) HAS CURED TO ITS MINIMUM 28-DAY COMPRESSIVE STRENGTH.

CONCRETE:

1. SEE DETAIL 1 ON DWG. NO. 49-S-401 FOR CONCRETE NOTES, INCLUDING CLEAR COVER AND LAP SPLICE LENGTH REQUIREMENTS FOR REINFORCING.
2. SUBMIT LOCATIONS OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWING FOR ACCEPTANCE BY THE ENGINEER BEFORE FORM LAYOUT.
3. PROVIDE CHAMFER AT EXPOSED EDGES OF CAST-IN-PLACE CONCRETE.
4. PROVIDE REINFORCING:
   - A. AT CORNERS AND JUNCTIONS - AS INDICATED IN DETAIL 3 ON DWG. NO. 49-S-401, SUPPLEMENT WITH ADDED BARS WHERE INDICATED ON THE DRAWINGS.
   - B. AT OPENINGS - AS INDICATED IN DETAIL 4 ON DWG. NO. 49-S-402.
5. WELDING OF REINFORCING IS NOT PERMITTED UNLESS DETAILED ON THE DRAWINGS OR ACCEPTED IN ADVANCE BY THE ENGINEER.
6. MAINTAIN MINIMUM 3 INCHES CLEAR CONCRETE COVER BETWEEN REINFORCING AND EMBEDMENTS.
7. FINISH CONCRETE AS SPECIFIED IN SECTION 03 36 60.

STEEL AND STAINLESS STEEL - CONNECTIONS:

1. BOLTED:
   - A. MADE USING 3/4 INCH DIAMETER BOLTS.
   - B. HAVING A MINIMUM OF 2 BOLTS, SPACED NOT CLOSER THAN 3 INCHES ON CENTER.
   - C. WITH A DISTANCE OF AT LEAST 1-1/2 INCHES FROM CENTER OF BOLT TO ANY EDGE OF A PLATE OR STRUCTURAL ELEMENT.
2. WELDED:
   - A. FILLET WELDS: PER AWS CODE BASED ON THE THICKNESS OF THE MATERIALS BEING JOINED, AND FULL LENGTH OF THE JOINT.
3. INTERFACE BETWEEN MATERIALS:
   - A. AT BOLTED CONNECTIONS THAT INCLUDE DIFFERENT METALS (E.G. STEEL AND STAINLESS STEEL) PROVIDE ISOLATING SLEEVES AND WASHERS.
4. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY:
   - A. INSTALL IN FULL COMPLIANCE WITH BUILDING CODE EVALUATION REPORT AND MANUFACTURER'S INSTRUCTIONS.
   - B. DO NOT CUT, DAMAGE, OR INTERRUPT EXISTING REINFORCEMENT TO INSTALL ANCHORS. USE NON-DESTRUCTIVE TESTING EQUIPMENT TO IDENTIFY LOCATIONS OF REINFORCEMENT IN MEMBERS BEFORE DRILLING HOLES FOR ANCHORS.

METAL FABRICATIONS:

1. GRATING:
   - A. GALVANIZED STEEL.
   - B. GRATING AND ITS SEATS OR SUPPORTS SHALL BE OF THE SAME MATERIAL.
   - C. SEE GRATING DETAILS FOR COMPLETE REQUIREMENTS.

SPECIAL INSPECTION:

1. SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING STRUCTURAL MATERIALS AND CONSTRUCTION.
2. DIVISION 31 SITE CONSTRUCTION (EARTHWORK):
   - A. EXCAVATION DEPTH.
   - B. ADEQUACY OF EXPOSED SURFACE TO PROVIDE REQUIRED SUPPORT.
   - C. PREPARATION OF SOILS/SURFACES SUPPORTING CONSTRUCTION.
   - D. FILL AND BACKFILL.
3. DIVISION 03 CONCRETE:
   - A. LOCATIONS.
   - B. FORMWORK AND MEMBER SIZES.
   - C. REINFORCING STEEL.
   - D. ANCHORS: CAST-IN AND POST-INSTALLED.
   - E. CONCRETE MIX AND PLACEMENT.
   - F. PROTECTION AND CURING PROCEDURES.
4. DIVISION 05 METALS:
   - A. GENERAL ALL METALS:
     1) MEMBER LOCATIONS.
     2) MEMBER SIZES/TYPES.
     3) ANCHORS - CAST-IN AND BUILT-IN ANCHOR BOLTS.
     4) ANCHORS - POST-INSTALLED MECHANICAL AND ADHESIVE.

STRUCTURAL OBSERVATION:

1. STRUCTURAL OBSERVATION IS NOT REQUIRED.

STRUCTURAL SYMBOLS:

1. SEE DRAWING G-002 FOR KEY TO DRAWING TITLES AND SECTION CUTS, AND FOR DEFINITION OF MATERIALS SHADING PATTERNS.
2. WELDING SYMBOLS: IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) A2.4.

STRUCTURAL ABBREVIATIONS:

1. SEE DRAWING G-002 FOR GENERAL LIST OF ABBREVIATIONS USED ON DRAWINGS.
2. ABBREVIATIONS FOR NAMES OF TECHNICAL GROUPS MAY BE FOUND IN THE PROJECT SPECIFICATIONS.
3. STRUCTURAL MEMBERS:
   - A. STEEL: ABBREVIATIONS AND DESIGNATIONS ARE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S STEEL CONSTRUCTION MANUAL, CURRENT EDITION.

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STATE OF CALIFORNIA

SODIUM HYPOCHLORITE FOUNDATION PROJECT

GENERAL

STRUCTURAL NOTES

VERIFY SCALE

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0 — 1"

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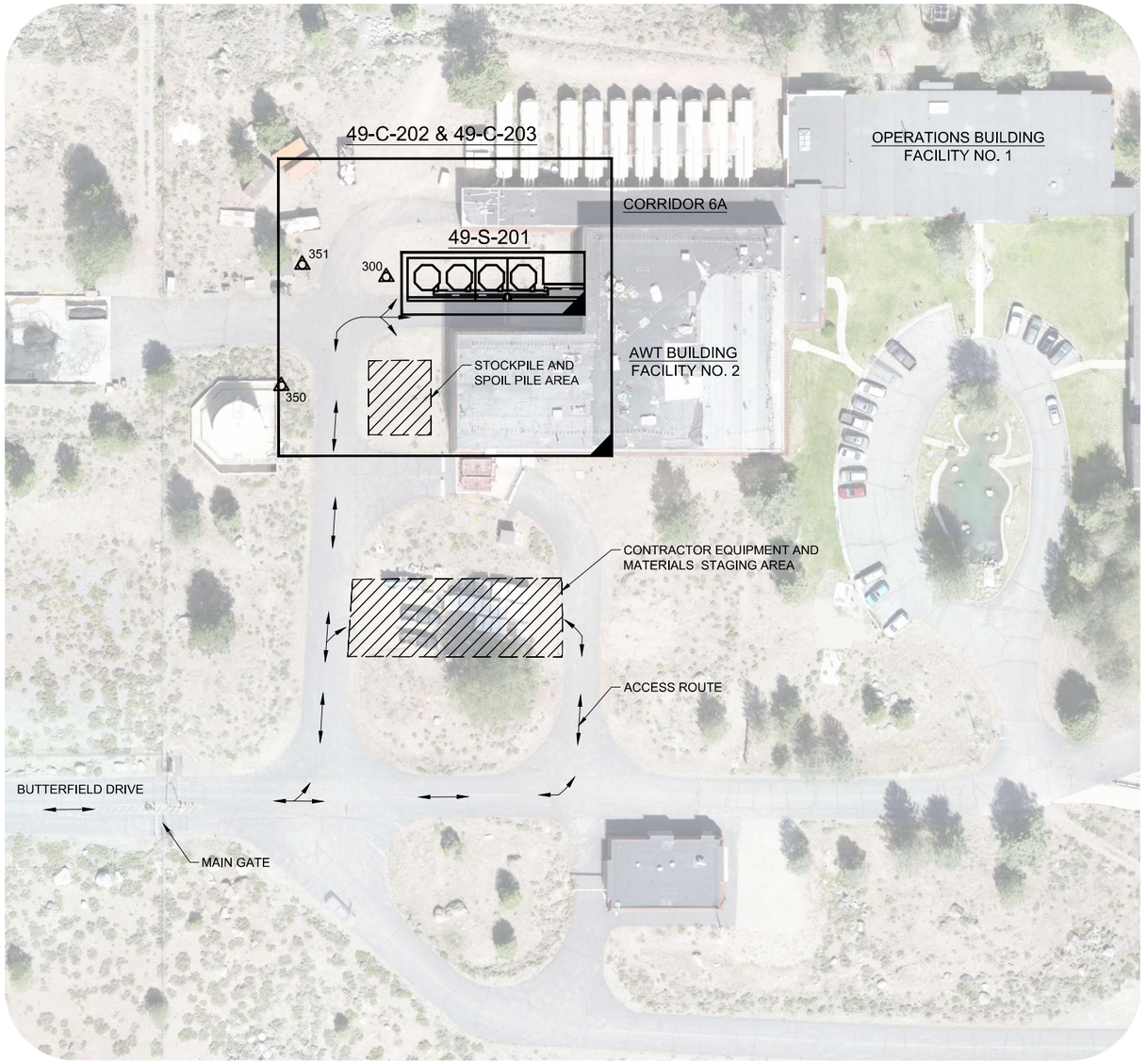
NO.	REVISIONS	APPROVED BY	DATE
1	ADDENDUM NO. 1	MD / RP	9/21/2023

DESIGNED BY: MD | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 3 OF 14

DWG NO. G-003

DATE SEPTEMEBER 2023



TRUE
PLANT

PLAN
SCALE: 1"=40'

SURVEY PREPARED BY:

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1361 Corporate Boulevard Tel 775.823.4068
Reno, NV 89502 Fax 775.823.4066
CONTACT: MICHAEL DETWILER, PLS, CP

BASIS OF BEARINGS

CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE II, NORTH AMERICAN DATUM OF 1983(2011), AS DETERMINED USING REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS. THE BEARING BETWEEN NATIONAL GEODETIC SURVEY (NGS) BENCHMARK KS2017 "POLARIS" AND DH6440 "TRUCKEE" IS TAKEN AS NORTH 17°47'00" WEST. ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. COMBINED GRID-TO-GROUND FACTOR = 1.000348792.

BASIS OF ELEVATION

THE BASIS OF ELEVATION IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AS TAKEN FROM NGS BENCHMARK KS2012 "POLARIS", WITH AN NGS OPUS DERIVED ELEVATION OF 5823.17 FT. THE BENCHMARK IS DESCRIBED AS BEING 3 ½" DISK SET IN CONCRETE, 6" ABOVE GROUND, STAMPED CALIFORNIA DEPT. OF TRANSPORTATION POLARIS 1979.

SURVEY NOTES

1. MAPPING OUTSIDE OF CONTROL PERIMETER MAY NOT MEET MAP ACCURACY STANDARDS.
2. BUILDING OUTLINES INDICATE DRIP LINE OF ROOF, WHICH MAY NOT DEPICT STAIRS AND/OR ATTACHMENTS.
3. FEATURES IN SHADOWS AND VEGETATED AREAS OR NEAR TALL OBJECTS MAY BE OBSCURED DUE TO PHOTOGRAPHIC ANGLE. NO RELIANCE IS TO BE MADE ON THE ACCURACY OF THESE CONTOURS.
4. SHADOWS AND OBSCURED AREAS NOT SHOWN FOR CLARITY.
5. THIS MAP HAS BEEN PREPARED BY PHOTOGRAMMETRIC METHODS AND CONFORMS TO THE USGS NMAS STANDARDS OF 1999 AND THE ASPRS STANDARDS OF 2014.

ACCURACY STATEMENT:

THIS DATA SET WAS PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 0.08 (FT) RMSE(z) VERTICAL ACCURACY CLASS EQUATING TO ± 0.16 (FT) AT 95% CONFIDENCE LEVEL.

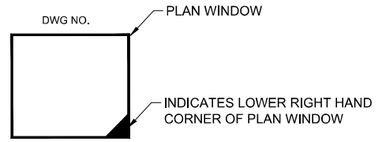
SURVEY CONTROL TABLE

NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	2255472.741	7093111.557	5741.653	REBAR / CAP
350	2255388.038	7093112.077	5743.666	REBAR / CAP
351	2255444.871	7093073.105	5740.842	REBAR / CAP

NOTES:

1. PROTECT IN PLACE ALL EXISTING EQUIPMENT, FACILITIES, AND STRUCTURES.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO AGENCY FACILITIES AT ALL TIMES DURING CONSTRUCTION. EQUIPMENT, MATERIALS, AND PERSONNEL SHALL BE STAGED IN LOCATIONS ACCEPTABLE TO AGENCY. ANY WORK ACTIVITIES REQUIRING A TEMPORARY CLOSURE TO AN AGENCY FACILITY OR IMPACT AGENCY ACCESS SHALL BE APPROVED BY THE AGENCY A MINIMUM OF 72-HOURS IN ADVANCE OF THE SCHEDULED WORK.

LEGEND



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9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

CIVIL

OVERALL SITE PLAN AND SURVEY CONTROL

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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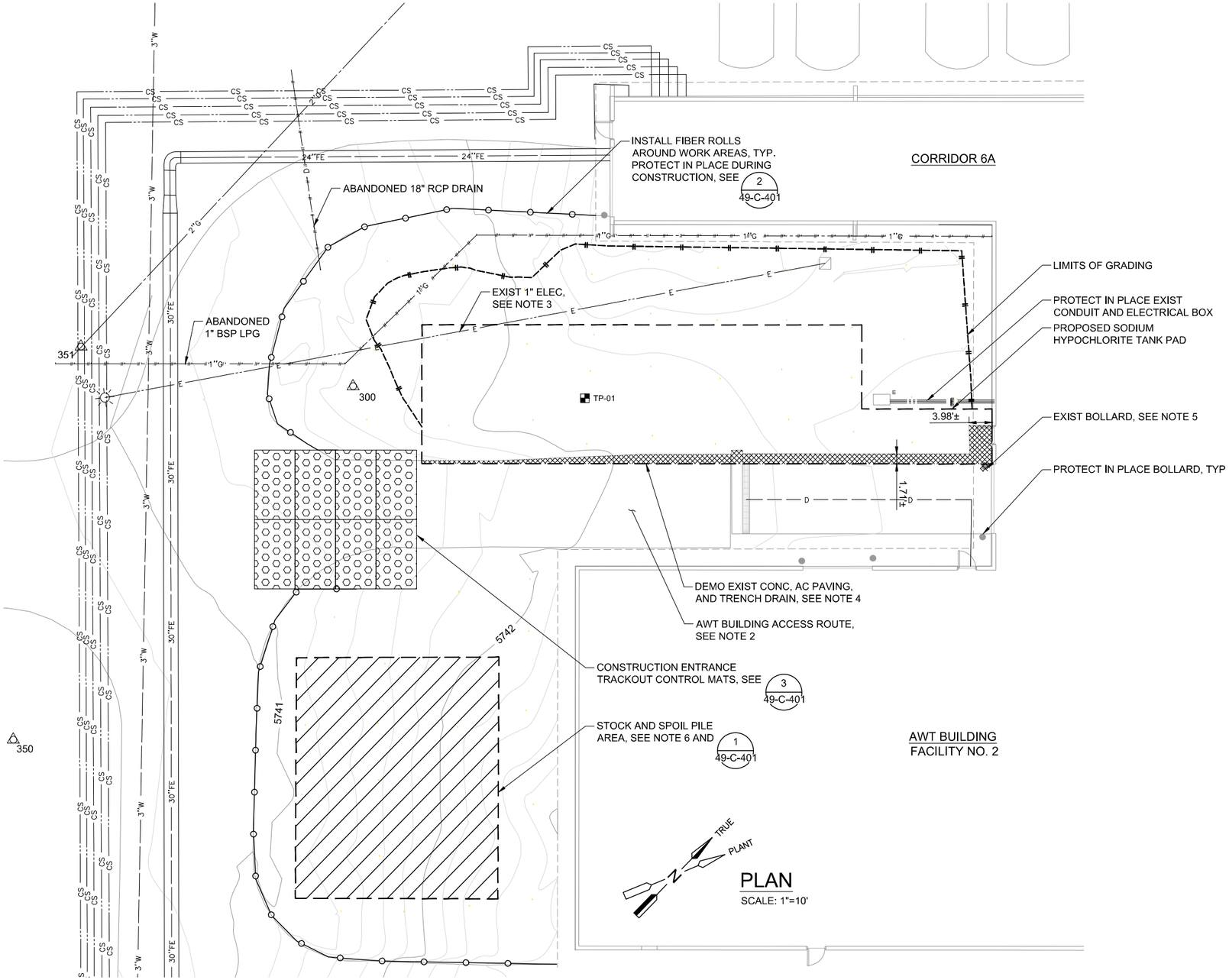
NO.	REVISIONS	APPROVED BY	DATE

DESIGNED BY: SF | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 4 OF 14

DWG NO. 49-C-201

DATE SEPTEMEBER 2023



PLAN

SCALE: 1"=10'

NOTES:

1. PROTECT IN PLACE ALL EXISTING EQUIPMENT, FACILITIES, AND STRUCTURES.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO AGENCY FACILITIES AT ALL TIMES DURING CONSTRUCTION. EQUIPMENT, MATERIALS, AND PERSONNEL SHALL BE STAGED IN LOCATIONS ACCEPTABLE TO AGENCY. ANY WORK ACTIVITIES REQUIRING A TEMPORARY CLOSURE TO AN AGENCY FACILITY OR IMPACT AGENCY ACCESS SHALL BE APPROVED BY THE AGENCY A MINIMUM OF 72-HOURS IN ADVANCE OF THE SCHEDULED WORK.
3. AGENCY SHALL DE-ENERGIZE EXIST ELECTRICAL PRIOR TO THE CONTRACT WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY UTILITIES IN CONFLICT WITH THE PROPOSED WORK DURING EXCAVATION, NOTIFY THE AGENCY, AND ALLOW THE AGENCY TO RELOCATE AS REQUIRED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING THE DEMOLITION LIMITS FOR THE PROPOSED PAD. SAWCUT TO PROVIDE A CLEAN EDGE WHERE WORK WILL ABUT EXISTING SITE IMPROVEMENTS.
5. CONFIRM LOCATION OF EXIST BOLLARD, REMOVE IF NECESSARY FOR WORK.
6. STOCK AND SPOIL PILE AREA SHALL BE FOR STORAGE OF SOIL GENERATED FROM THE PROJECT EXCAVATION. CONTRACTOR SHALL NOT IMPORT SOIL FROM NON-AGENCY PROJECTS TO THE SITE FOR STORAGE. THE AGENCY WILL TAKE OWNERSHIP OF THE STOCK AND SPOIL PILE UPON COMPLETION OF THE PROJECT.

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9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

CIVIL

DEMOLITION AND EROSION CONTROL PLAN - EXISTING SITE

VERIFY SCALE

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0 1"

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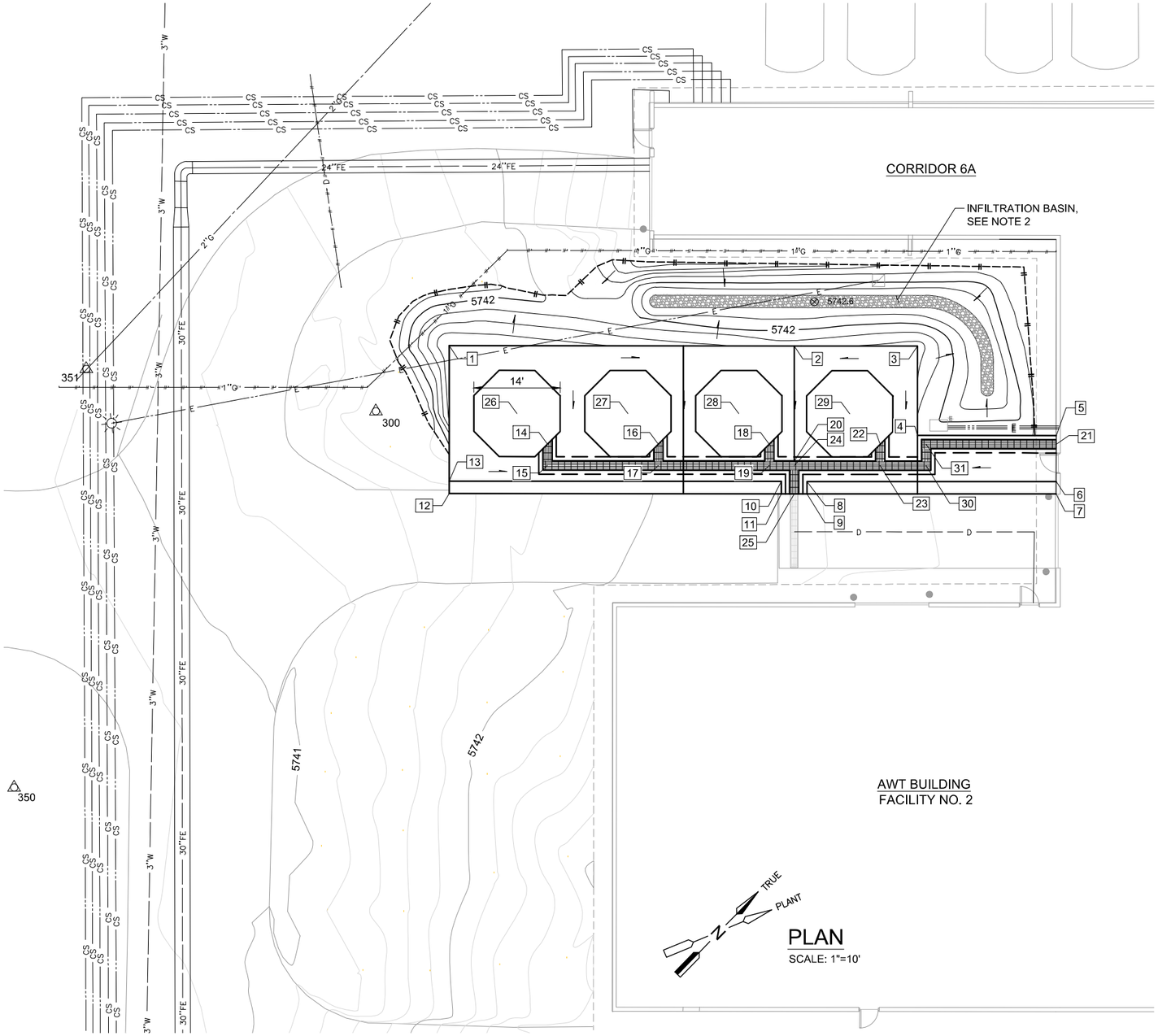
SHEET 5 OF 14

DWG NO. 49-C-202

DATE SEPTEMEBER 2023



PLAN
SCALE: 1"=10'

COORDINATE TABLE

NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	2255488.67	7093112.66	5743.10 5742.60	FINISH PAD FINISH GRADE SOIL
2	2255527.71	7093152.82	5742.54 5742.30	FINISH PAD FINISH GRADE SOIL
3	2255541.65	7093167.16	5742.74 5742.50	FINISH PAD FINISH GRADE SOIL
4	2255531.25	7093177.27	5742.45 5742.20	FINISH PAD FINISH GRADE SOIL
5	2255546.95	7093193.42	5742.91 5742.50±	FINISH PAD FINISH GRADE SOIL
6	2255541.57	7093198.64	5743.41 5742.91	TOP OF CURB FLOW LINE
7	2255540.14	7093200.04	5743.41 5742.82±	TOP OF CURB EXIST GRADE
8	2255513.38	7093169.65	5742.62 5742.12	TOP OF CURB FLOW LINE
9	2255511.94	7093171.04	5742.62 5742.15±	TOP OF CURB EXIST GRADE
10	2255510.48	7093166.66	5742.62 5742.12	TOP OF CURB FLOW LINE
11	2255509.04	7093168.06	5742.62 5742.08±	TOP OF CURB EXIST GRADE
12	2255471.46	7093129.39	5743.16 5741.53±	TOP OF CURB EXIST GRADE
13	2255472.90	7093128.00	5743.16 5742.66	TOP OF CURB FLOW LINE
14	2255488.35	7093135.22	5742.62 5741.74	TOP OF GRATE FLOW LINE
15	2255485.87	7093137.63	5742.55 5741.67	TOP OF GRATE FLOW LINE
16	2255500.90	7093148.12	5742.44 5741.56	TOP OF GRATE FLOW LINE
17	2255498.41	7093150.54	5742.37 5741.49	TOP OF GRATE FLOW LINE
18	2255513.45	7093161.03	5742.26 5741.38	TOP OF GRATE FLOW LINE
19	2255510.96	7093163.45	5742.19 5741.31	TOP OF GRATE FLOW LINE
20	2255514.32	7093165.83	5742.16	FINISH PAD
21	2255545.93	7093194.41	5742.91 5741.76	TOP OF GRATE FLOW LINE
22	2255525.99	7093173.94	5742.36 5741.48	TOP OF GRATE FLOW LINE
23	2255523.51	7093176.35	5742.29 5741.41	TOP OF GRATE FLOW LINE
24	2255513.78	7093166.35	5742.15 5741.27	TOP OF GRATE FLOW LINE
25	2255510.49	7093169.55	5742.11 5741.18	TOP OF GRATE FLOW LINE
26	2255488.45	7093128.22	5744.91	EQUIPMENT PAD
27	2255501.00	7093141.12	5744.91	EQUIPMENT PAD
28	2255513.54	7093154.03	5744.91	EQUIPMENT PAD
29	2255526.09	7093166.94	5744.91	EQUIPMENT PAD
30	2255528.71	7093181.71	5742.36 5741.48	TOP OF GRATE FLOW LINE
31	2255531.22	7093179.27	5742.42 5741.55	TOP OF GRATE FLOW LINE

NOTES:

1. PROTECT IN PLACE ALL EXISTING EQUIPMENT, FACILITIES, AND STRUCTURES.
2. CONTRACTOR SHALL PROVIDE 6" OF AGGREGATE BASE TO A FINISH GRADE OF 5741.60 FOR A MIN. 2-FOOT WIDE AREA AS SHOWN.

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SODIUM HYPOCHLORITE FOUNDATION PROJECT

CIVIL

SODIUM HYPOCHLORITE SITE PLAN

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"

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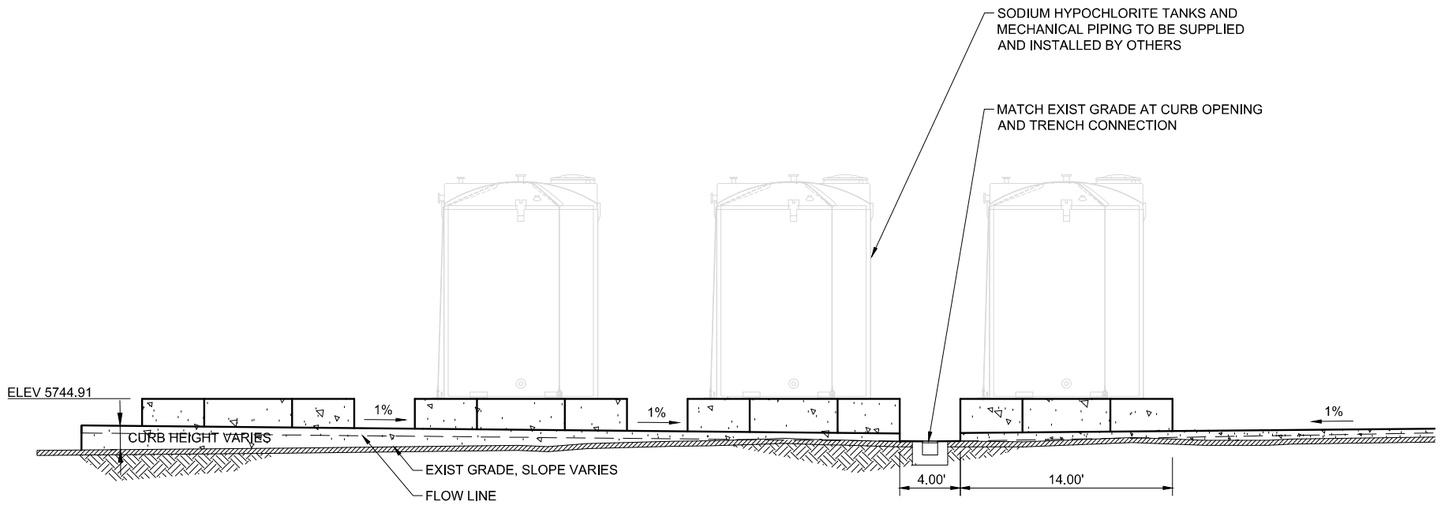
DESIGNED BY: SF | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 6 OF 14

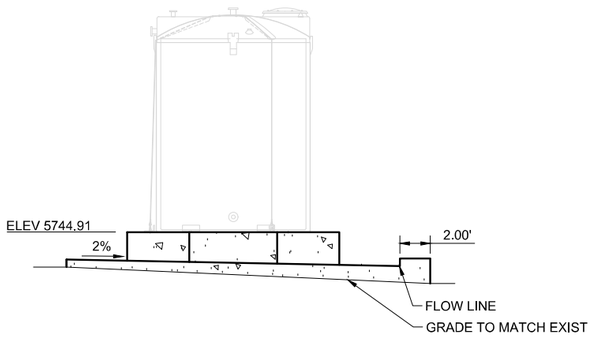
DWG NO. 49-C-203

DATE SEPTEMEBER 2023



SOUTH ELEVATION

SCALE: 1" = 5'



WEST ELEVATION

SCALE: 1" = 5'

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9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

CIVIL

SODIUM HYPOCHLORITE ELEVATION

VERIFY SCALE

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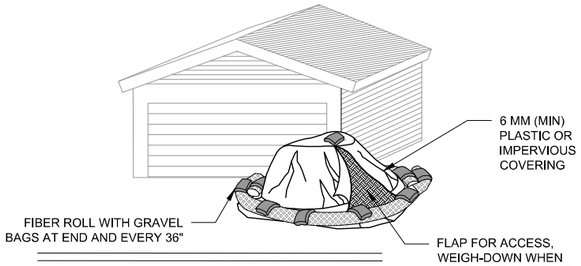
SHEET 7 OF 14

DWG NO. 49-C-301

DATE SEPTEMEBER 2023

C:\Users\sfleming\OneDrive - Tahoe-Truckee Sanitation Agency\Desktop\Files\Sodium Hypochlorite\49-C-301.dwg 8/28/2023 23:31



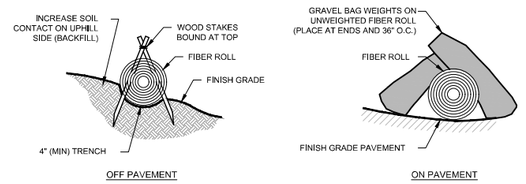
NOTES:

1. LOCATE STOCK AND/OR SPOIL PILES AWAY FROM DRAINAGE COURSES, DRAIN INLETS OR CONCENTRATED FLOWS OF STORMWATER.
2. ALL STOCK AND/OR SPOIL PILE PERIMETERS SHALL BE PROTECTED WITH TEMPORARY LINEAR SEDIMENT BARRIERS.
3. COVER ALL STOCK AND/OR SPOIL PILES WITH 6 MM PLASTIC, CANVAS TARP OR IMPERVIOUS COVER TO PREVENT WIND AND RAIN EROSION. EVENLY SPACE WEIGHTS (GRAVEL BAGS) ON COVER TO KEEP IN PLACE DURING WIND.
4. CONDUCT REGULAR INSPECTIONS OF STOCK AND/OR SPOIL PILES DURING AND AFTER RAIN EVENTS.
5. STOCK/SPOIL PILES MUST BE STORED WITHIN THE AGENCY APPROVED AREA.

STOCK AND SPOIL PILES

SCALE: NTS

1
49-C-202



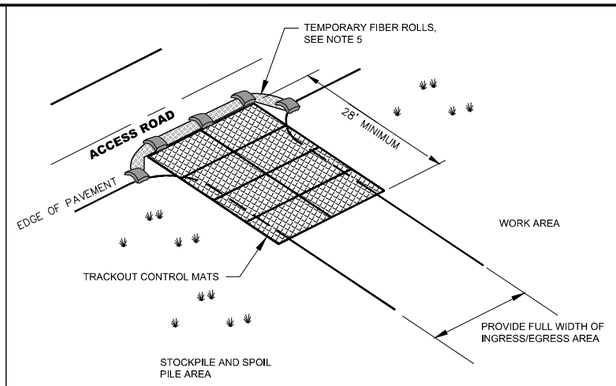
NOTES:

1. FIBER ROLLS OR EROSION CONTROL MESH SHALL BE MADE OF LOOSE-WEAVE MESH THAT IS NOT FUSED AT THE INTERSECTIONS OF THE WEAVE, SUCH AS JUTE, OR COCONUT (COIR) FIBER, OR OTHER PRODUCTS WITHOUT WELDED WEAVES. PRODUCTS WITH PLASTIC MONOFILAMENT OR CROSS JOINTS IN THE NETTING THAT ARE BOUND/STITCHED (SUCH AS FOUND IN STRAW WATTLES/FIBER ROLLS AND SOME EROSION CONTROL BLANKETS), WHICH MAY CAUSE ENTRAPMENT OF WILDLIFE, SHALL NOT BE ALLOWED.
2. FIBER ROLLS SHALL BE 8" DIAMETER FILLED WITH RICE STRAW WATTLE THAT IS WEED AND SEED FREE. ROLLS SHALL BE MADE OF BIODEGRADABLE BURLAP, JUTE, OR SISAL AND BE BETWEEN 1.1 TO 1.6 POUNDS PER LINEAR FOOT. NO OTHER FIBER ROLLS SHALL BE USED UNLESS APPROVED BY ENGINEERING.
3. ROPE SHALL BE BIODEGRADABLE SUCH AS SISAL OR MANILA AND HAVE A MINIMUM DIAMETER OF 1/4".

FIBER ROLLS

SCALE: NTS

2
49-C-202



NOTES:

1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE USED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS.
2. TRACKOUT CONTROL MATS SHALL BE USED ON EXISTING ASPHALT TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THE MATS SHALL BE ANCHORED TO EXISTING SOIL OR ASPHALT PER THE MANUFACTURER'S RECOMMENDED ANCHORING SYSTEM. THE MATS SHALL BE 7'x12' AND BE MANUFACTURED BY "FODS" OR EQUAL.
3. CAUTION SHALL BE USED WHEN CROSSING THE TRACKOUT CONTROL MATS WITH METAL TRACKED EQUIPMENT.
4. CONTRACTOR SHALL CLEAN TRACKOUT CONTROL MATS ONCE 2.5" OF SEDIMENT HAS ACCUMULATED IN THE MATS. CLEANING SHALL BE ACCOMPLISHED BY USING A SUITABLE BROOM, BRUSH, OR OTHER MANUFACTURER APPROVED METHOD TO REMOVE SEDIMENT. ANY WATER USED TO CLEAN THE MATS SHALL BE CAPTURED AND NOT ALLOWED TO RUN OFFSITE.
5. CONTRACTOR SHALL INSTALL TEMPORARY FIBER ROLLS IN FRONT OF TRACKOUT CONTROL MATS DURING RAIN EVENTS.
6. ALL SEDIMENT DEPOSITS ON PAVED ROADWAYS OUTSIDE THE CONSTRUCTION ZONE SHALL BE REMOVED WITHIN 24 HOURS.

CONSTRUCTION ENTRANCE

SCALE: NTS

3
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REGISTERED PROFESSIONAL ENGINEER
SCOTT J. FLEMING
No. 61674
Exp. 3-31-24
CIVIL
STATE OF CALIFORNIA
9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

CIVIL

CIVIL DETAILS

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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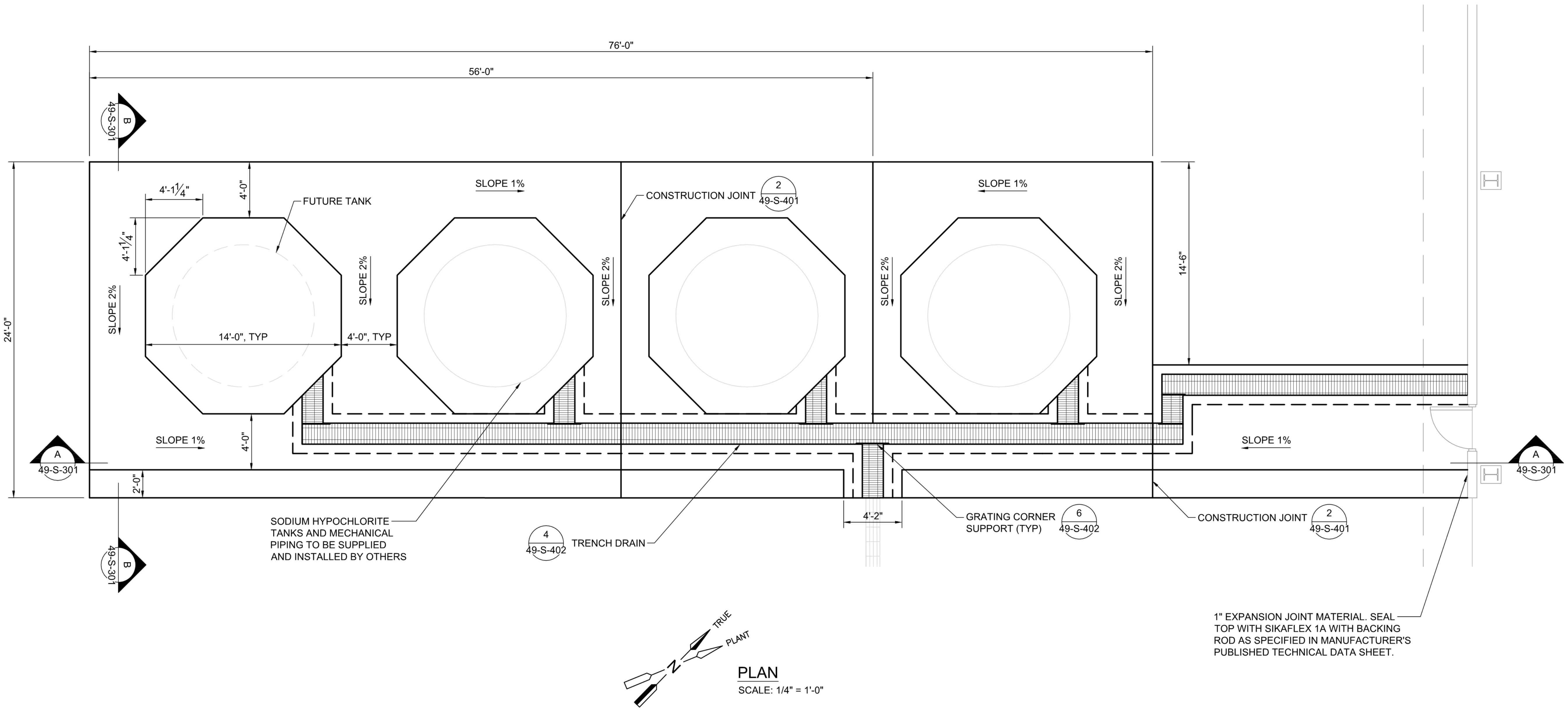
SHEET 8 OF 14

DWG NO. 49-C-401

DATE SEPTEMEBER 2023



PLAN

SCALE: 1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL E. DADIK
No. S5368
STRUCTURAL
STATE OF CALIFORNIA

SODIUM HYPOCHLORITE FOUNDATION PROJECT

STRUCTURAL

STRUCTURAL PLAN

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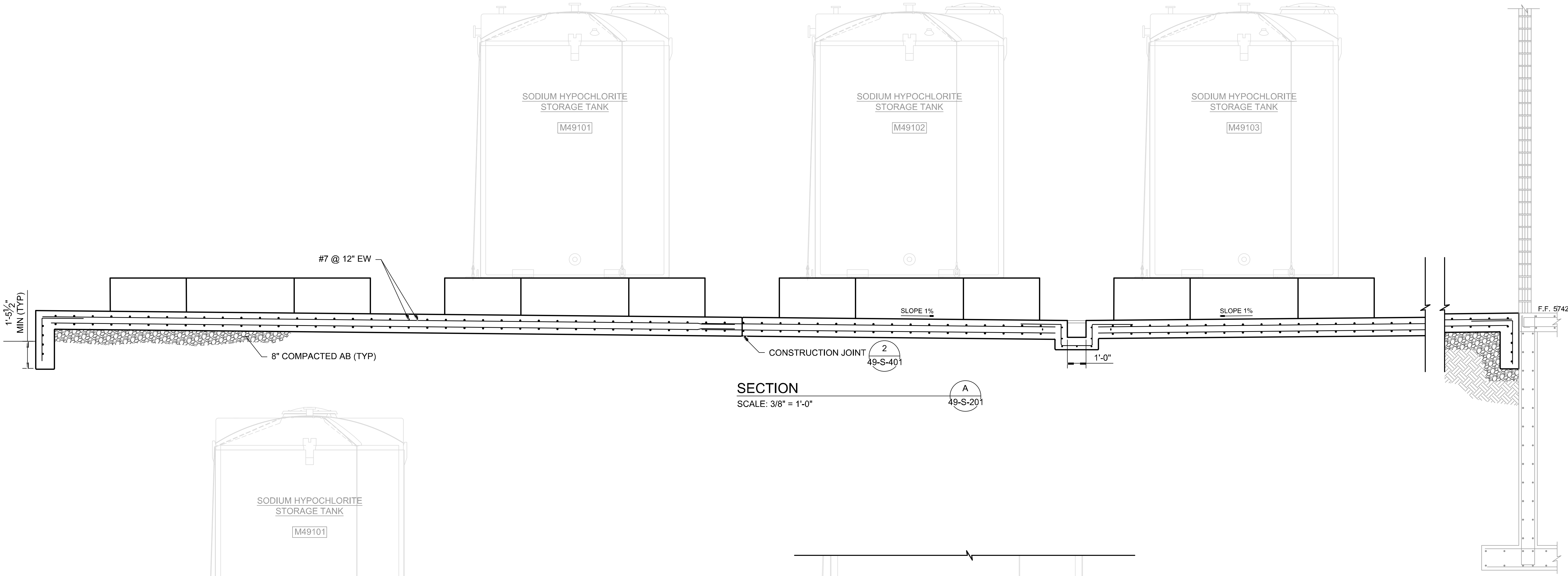
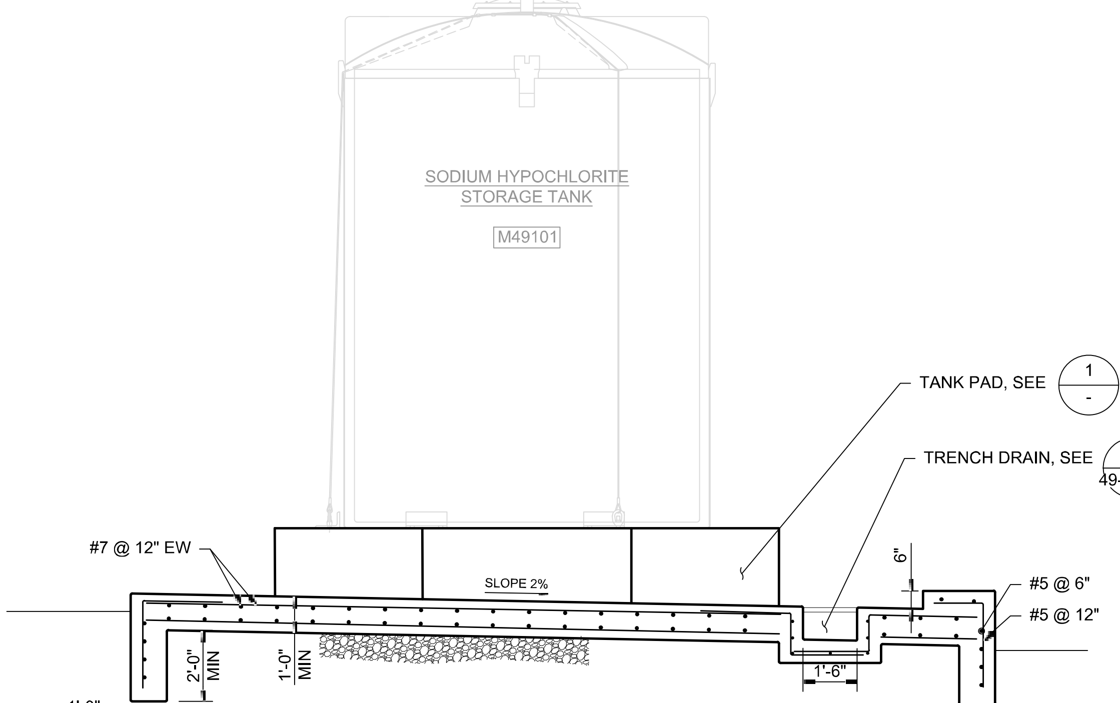
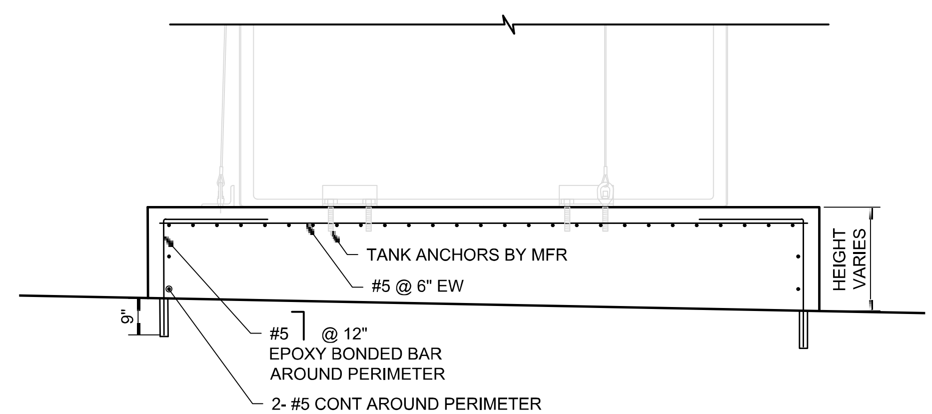
SHEET	9 OF 14
DWG NO.	49-S-201
DATE	SEPTEMEBER 2023



SECTION A
SCALE: 3/8" = 1'-0"
49-S-201



SECTION B
SCALE: 3/8" = 1'-0"
49-S-201



DETAIL 1
SCALE: 1/2" = 1'-0"
-

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STRUCTURAL SECTIONS

VERIFY SCALE

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SHEET 10 OF 14

DWG NO. 49-S-301

DATE SEPTEMEBER 2023

1. SEE DIVISION 03 SPECIFICATION FOR REQUIREMENTS FOR CONCRETE CONSTRUCTION.
2. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, MINIMUM REINFORCEMENT OF CONCRETE WALLS OR SLABS SHALL BE AS FOLLOWS. CONTACT ENGINEER FOR LOCATIONS INSIDE CONCRETE.
   10" THICK OR LESS: ....#5 @ 12" EACH WAY.
   MORE THAN 10" THICK: ....#5 @ 12" EACH WAY, EACH FACE.
3. WALL REINFORCEMENT AT CORNERS OR JUNCTIONS OF WALLS SHALL BE CONTINUOUS, LAP SPLICED, OR TERMINATED IN AN ACI STANDARD 90 DEGREE HOOK. SEE DETAIL 3, TYP.
4. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, DOWELS BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE THE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS SPLICED TO THE DOWELS.
5. SLAB, BEAM AND COLUMN REINFORCING BARS SHALL HAVE A MINIMUM EXTENSION OR ANCHORAGE INTO SUPPORTS IN ACCORDANCE WITH ACI 318 AND ACI 350.
6. PROVIDE STIRRUP SUPPORT BARS SHALL BE TO SECURE TOP BARS AGAINST DISPLACEMENT AS REQUIRED.
7. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, CONCRETE COVER OVER #11 AND SMALLER REINFORCING BARS SHALL BE AS FOLLOWS:
   A. SLABS AND JOISTS:
      FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES FOR DRY CONDITIONS
         #7 BARS AND SMALLER..1"
         #8 BARS AND LARGER...1 1/2"
      FORMED CONCRETE SURFACES AND UNFORMED TOP SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR LOCATED OVER FLUIDS..2"
   B. BEAMS AND COLUMNS:
      FORMED CONCRETE SURFACES FOR DRY CONDITIONS:
         STIRRUPS, SPIRALS, AND TIES..............................1 1/2"
         PRINCIPAL REINFORCEMENT.................................2"
      FORMED CONCRETE SURFACES EXPOSED TO WEATHER, IN CONTACT WITH SOIL OR FLUIDS, OR IN BEAMS LOCATED OVER FLUIDS:
         STIRRUPS AND TIES..2"
         PRINCIPAL REINFORCEMENT.................................2 1/2"
   C. WALLS:
      FORMED CONCRETE SURFACES FOR DRY CONDITIONS:
         #7 BARS AND SMALLER..1"
         #8 BARS AND LARGER...1 1/2"
      FORMED CONCRETE SURFACES EXPOSED TO WEATHER, OR IN CONTACT WITH SOIL OR FLUIDS......................2"

REINFORCED CONCRETE NOTES (1 / -)
SCALE: NTS

   D. FOOTINGS AND SLABS ON GRADE:
      FORMED VERTICAL CONCRETE SURFACES.............................2"
      AT UNFORMED CONCRETE SURFACES CAST AGAINST SOIL, ROCK, OR CONCRETE WORK MATS...3"
      TOP SURFACE OF FOOTINGS AND SLABS...............................SAME AS SLABS
8. WATERSTOPS:
   A. PROVIDE WATERSTOPS AT JOINTS IN SLABS AND WALLS OF LIQUID-CONTAINING STRUCTURES, AND PORTIONS OF STRUCTURES BELOW THE DESIGN GROUNDWATER LEVEL. MAKE WATERSTOPS CONTINUOUS THROUGH STRUCTURE, SPLICING WATERSTOPS IN SLABS WITH WATERSTOPS IN WALLS.
   B. END WATERSTOPS 3" BELOW TOP OF WALLS. WHERE TOP OF WALL IS COVERED BY A SLAB WITHOUT WATERSTOPS, CONTINUE WATERSTOP TO WALL/SLAB JOINT. WHERE TOP OF WALL IS COVERED BY A SLAB WITH WATERSTOPS, MAKE WATERSTOPS CONTINUOUS, SPLICING WATERSTOPS IN WALLS WITH WATERSTOPS IN SLAB.
9. CURE CONCRETE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE WATER CURING IS SPECIFIED, MEMBRANE CURING IS NOT ALLOWED.
   A. THE CONTRACTOR IS WARNED THAT WATER CURING IS DIFFICULT AT TIMES DUE TO WIND AND DRY CONDITIONS. STUDY SPECIFICATION REQUIREMENTS AND FURNISH ADEQUATE STRUCTURES TO PROVIDE WATER CURING WHERE REQUIRED.
   B. KEEP WATER CURED SURFACES VISIBLY MOIST AT ALL TIMES. FLOOD TOPS OF WALLS NOT LESS THEN 3 TIMES DAILY.
10. DO NOT PLACE BACKFILL AGAINST WALLS UNTIL:
   A. WALLS HAVE BEEN CAST TO FULL HEIGHT OF STRUCTURE AND CONCRETE HAS REACHED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c).
   B. CONNECTING SLABS AND BEAMS HAVE BEEN CAST AND CONCRETE IN THOSE ELEMENTS HAS REACHED THE MINIMUM SPECIFIED COMPRESSIVE STRENGTH (f'c).
11. LAP SPLICES:
   A. SEE TABLE 1 OF THIS DETAIL FOR LAP SPLICE LENGTHS.
   B. WHEN MULTIPLE BARS ARE SPLICED AT THE SAME SECTION, THE "CLEAR BAR SPACING" IS DEFINED AS THE MINIMUM CLEAR DISTANCE BETWEEN THE BARS OUTSIDE THE SPLICE LENGTH MINUS ONE BAR DIAMETER.
   C. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, BARS AT A LAP SPLICE SHALL BE IN CONTACT WITH EACH OTHER.
   D. "TOP BARS" ARE HORIZONTAL REINFORCEMENT AT LOCATIONS WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
12. FORM EXPOSED CONCRETE CORNERS AND EDGES WITH 3/4" CHAMFER UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

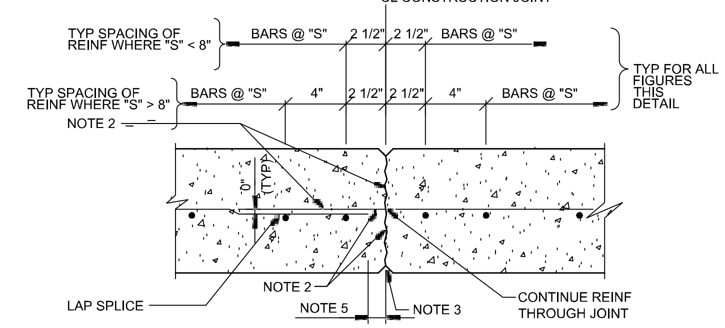
REINFORCED CONCRETE NOTES (1 / -)
SCALE: NTS

TABLE 1: REINFORCING BAR LAP SPLICES: f'c = 4000 PSI, Fy = 60,000 PSI

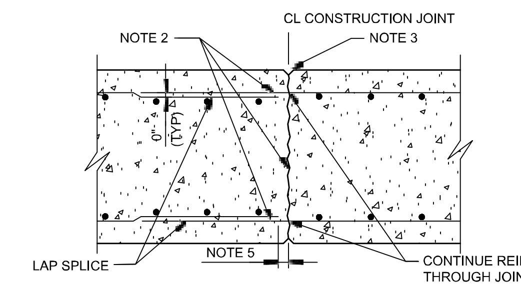
BAR SIZE	MINIMUM COVER (BAR DIA)	MINIMUM CLEAR BAR SPACING (BAR DIA)	LAP SPLICE LENGTH (INCHES)	
			TOP BARS	OTHER BARS
#4	MORE THAN 1	MORE THAN 2	32 *	25 *
	MORE THAN 2	MORE THAN 4	20	16
#5	MORE THAN 1	MORE THAN 2	40 *	31 *
	MORE THAN 2	MORE THAN 4	26	20
#6	MORE THAN 1	MORE THAN 2	48 *	37 *
	MORE THAN 2	MORE THAN 4	30	24
#7	MORE THAN 1	MORE THAN 2	70 *	54 *
	MORE THAN 2	MORE THAN 4	43	33
#8	MORE THAN 1	MORE THAN 2	81 *	62 *
	MORE THAN 2	MORE THAN 4	50	38
#9	MORE THAN 1	MORE THAN 2	90 *	70 *
	MORE THAN 2	MORE THAN 4	56	42
#10	MORE THAN 1	MORE THAN 2	104 *	81 *
	MORE THAN 2	MORE THAN 4	62	48
#11	MORE THAN 1	MORE THAN 2	114 *	88 *
	MORE THAN 2	MORE THAN 4	69	54

REINFORCING BAR LAP SPLICE TABLE NOTES:
1. TABULATED SPLICE LENGTHS ARE APPLICABLE ONLY WHEN BOTH REQUIREMENTS FOR MINIMUM COVER AND FOR MINIMUM CLEAR BAR SPACING ARE SATISFIED.
2. * = IF THE CLEAR BAR SPACING IS LESS THAN OR EQUAL TO TWO BAR DIAMETERS, OR THE COVER IS LESS THAN OR EQUAL TO ONE BAR DIAMETER, THE LAP SPLICE LENGTH SHALL BE INCREASED BY 50 PERCENT.

REINFORCED CONCRETE NOTES (1 / -)
SCALE: NTS

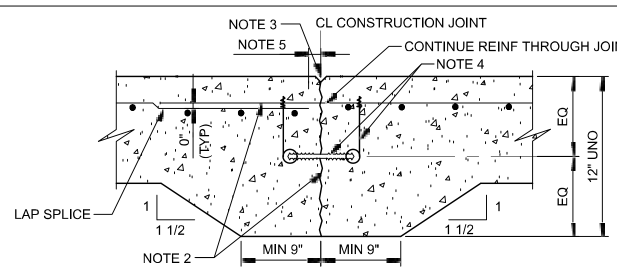


NON-WATER BEARING WALL OR SLAB
SINGLE LAYER REINFORCEMENT

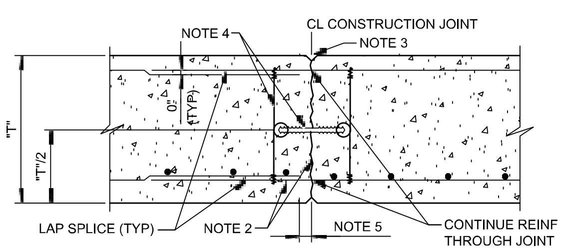


NON-WATER BEARING WALL OR SLAB
DOUBLE LAYER REINFORCEMENT

CONSTRUCTION JOINT (2 / -)
SCALE: NTS



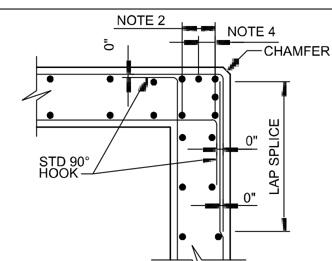
WATER BEARING SLAB LESS THAN 12" THICK



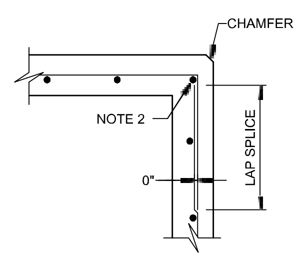
WATER BEARING SLAB OR WALL

NOTES:
1. "S" EQUALS TYPICAL BAR SPACING INDICATED ON THE DRAWINGS. "T" EQUALS SLAB OR WALL THICKNESS.
2. WATER-BLAST EXPOSED JOINT FACE AND PROJECTING REINFORCEMENT BEFORE PLACING CONCRETE.
3. JOINT EDGES:
   A. FOR WALLS AND BOTTOM OF EXPOSED SLABS: FORM EDGES WITH 1/2" CHAMFER.
   B. FOR SLABS: EDGE TOP AND ENDS WITH 1/4" RADIUS.
4. 6" WATERSTOP CENTERED ON JOINT. PROVIDE WIRE TIES MAX 2'-0" OC. HOG RINGS MAY BE USED IN LIEU OF WIRE LOOPS. THOROUGHLY CLEAN WATERSTOP BEFORE PLACING CONCRETE IN SECOND POUR.
5. STOP REINFORCING 2" CLEAR OF JOINT.

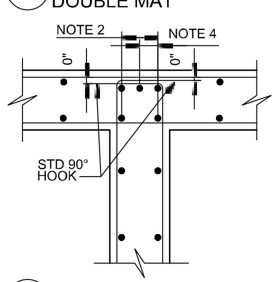
CONSTRUCTION JOINT (2 / -)
SCALE: NTS



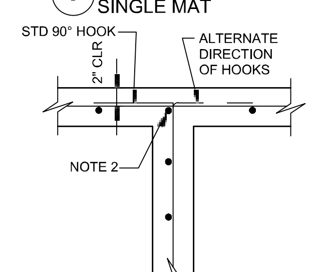
(A) DETAIL - CORNER: DOUBLE MAT



(B) DETAIL - CORNER: SINGLE MAT



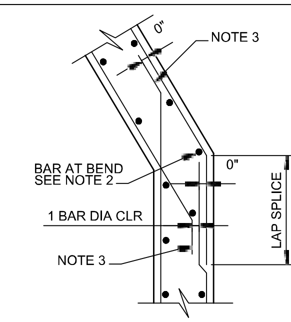
(C) DETAIL - INTERSECTION: DOUBLE MAT



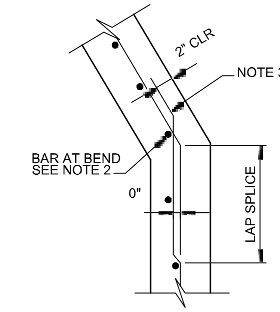
(D) DETAIL - INTERSECTION: SINGLE MAT

NOTES:
1. BAR SIZE, SPACING, AND ORIENTATION OF BAR LAYERS SHALL BE AS INDICATED ON THE DRAWINGS.
2. AT INTERSECTION, MAKE BAR SIZE THE LARGER OF BAR SIZES IN CONNECTING WALLS. PLACE BARS IN SAME LAYERS AS AT CONNECTING WALLS (TYP).
3. BAR TAILS: 12 BAR DIAMETERS PLUS 12".
4. EXTERIOR VERTICAL BARS SHALL BE PROVIDED AT A SPACING THAT DOES NOT EXCEED THE SPACING SPECIFIED ON THE DRAWINGS REGARDLESS OF THE WALL THICKNESS.

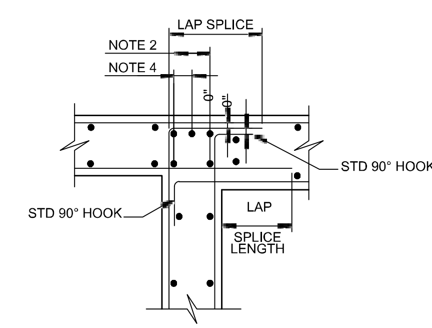
WALL REINFORCEMENT AT CORNERS AND INTERSECTIONS (3 / -)
SCALE: NTS



(E) DETAIL - INTERSECTION: DOUBLE MAT



(F) DETAIL - INTERSECTION: SINGLE MAT



(G) DETAIL - INTERSECTION: CHANGE IN WALL THICKNESS

WALL REINFORCEMENT AT CORNERS AND INTERSECTIONS (3 / -)
SCALE: NTS

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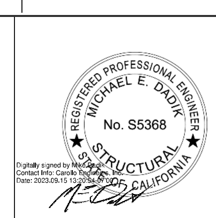

SODIUM HYPOCHLORITE FOUNDATION PROJECT

STRUCTURAL

STRUCTURAL DETAILS

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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SHEET 11 OF 14
DWG NO. 49-S-401
DATE SEPTEMEBER 2023

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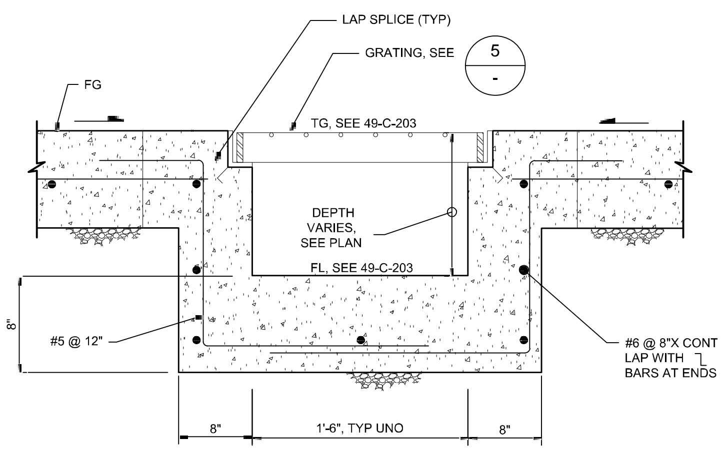
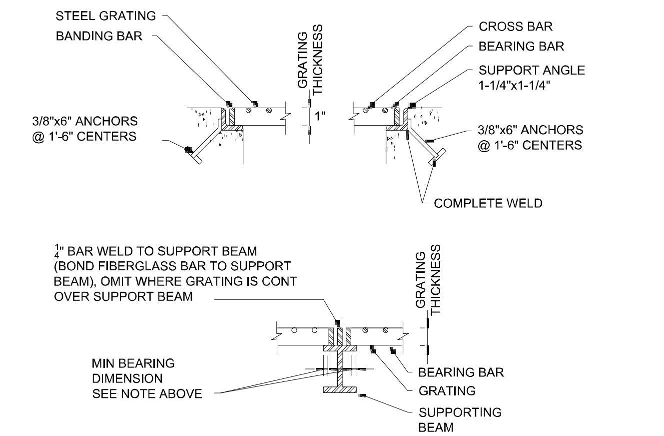


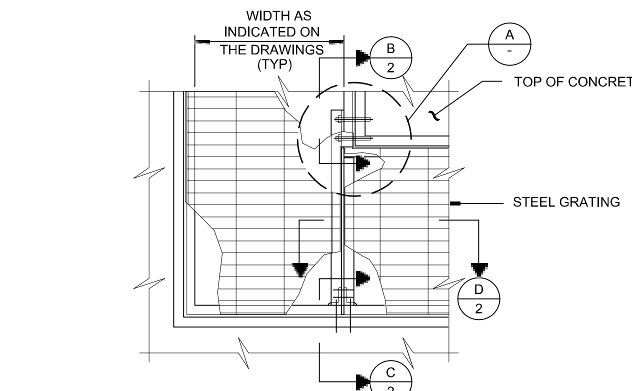
TRENCH DRAIN
SCALE: NTS
4 / 49-S-301



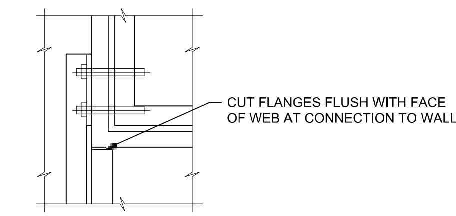
NOTES:

1. STEEL GRATING SHALL BE GALVANIZED STEEL WITH BEARING BARS SPACED AT 1-3/16" OC AND CROSS BARS SPACED AT 4" OC. MANUFACTURER SHALL BE GRATING PACIFIC OR APPROVED EQUAL.
2. MATERIAL FOR SUPPORTS OF STEEL GRATING TO BE SAME AS GRATING EXCEPT METAL SUPPORTS THAT ARE TO BE EMBEDDED IN CONCRETE SHALL BE TYPE 316 STAINLESS STEEL.
3. BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
4. BAND ALL EDGES WITH 3/16" THICK x DEPTH OF BEARING BAR.
5. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 1/4" NOR GREATER THAN 1/2" AND AS SPECIFIED.
6. PROVIDE GRATING SUBMITTAL TO AGENCY FOR REVIEW AND ACCEPTANCE.
7. GRATING SECTION WIDTHS SHALL BE 3 FT OR APPROVED BY AGENCY.

GRATING
SCALE: NTS
5 / -



PLAN

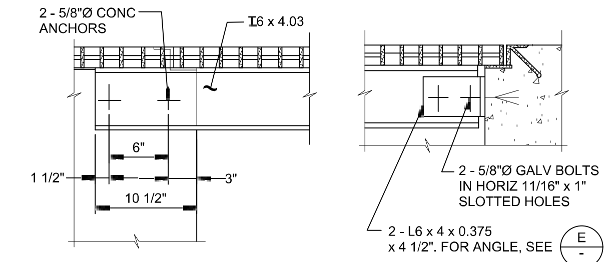


A/- PLAN

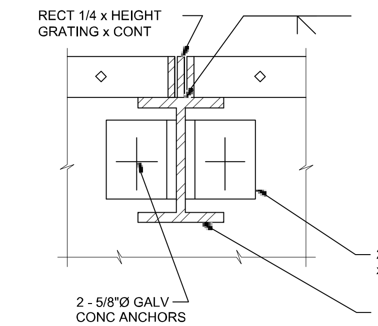
NOTES:

1. HOT DIP GALVANIZE ALL MEMBERS AFTER FABRICATION.

GRATING CORNER SUPPORT
SCALE: NTS
6 / -



B/1 SECTION



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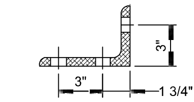
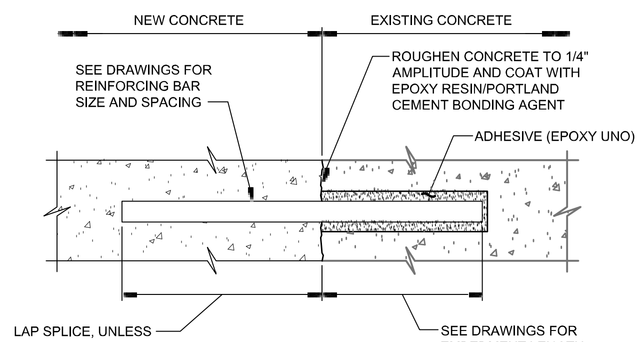


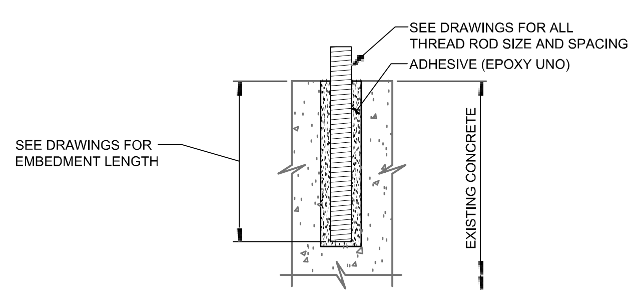
E/1 DETAIL

D/1 SECTION

GRATING CORNER SUPPORT
SCALE: NTS
6 / -



REINFORCING BARS



ALL-THREAD RODS

NOTE:

1. INSTALLATION OF REINFORCING BARS AND ALL THREAD RODS AS INDICATED IN THE SPECIFICATIONS.

ADHESIVE BONDED REINFORCING BARS OR ALL THREAD RODS
SCALE: NTS
7 / -

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VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING
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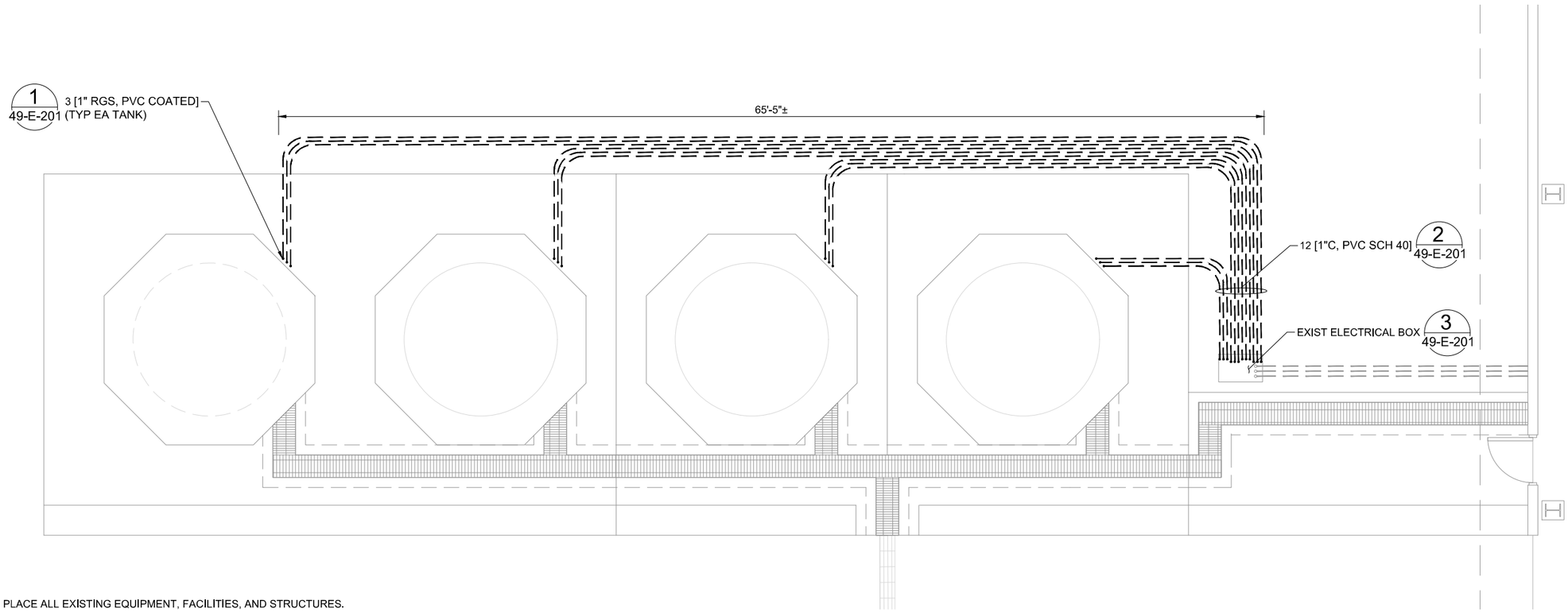
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

NO.	REVISIONS	APPROVED BY	DATE

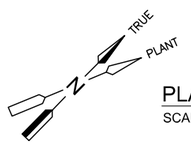
DESIGNED BY: MD | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET	12 OF 14
DWG NO.	49-S-402
DATE	SEPTEMEBER 2023



NOTES:

1. PROTECT IN PLACE ALL EXISTING EQUIPMENT, FACILITIES, AND STRUCTURES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONDUIT FROM EXIST ELECTRICAL BOX TO EACH TANK PAD PENETRATION STUB OUT. CONDUIT SHALL BE BURIED UNLESS NOTED OTHERWISE AND ROUTED ALONG THE NORTH FACE OF THE PAD. PRIOR TO POURING PAD, CONTRACTOR SHALL CONFIRM WITH AGENCY LOCATIONS OF STUB OUTS INSTALLED TO BE ACCEPTABLE TO AGENCY.
3. AGENCY WILL PERFORM ALL OTHER ELECTRICAL WORK AND CONNECTIONS AFTER THE CONTRACTOR WORK IS COMPLETE.
4. PVC SCHEDULE 40 CONDUIT SHALL MEET REQUIREMENTS OF NEMA TC 2 AND UL 651 AND BE UL LISTED FOR CONCRETE ENCASEMENT, UNDERGROUND DIRECT BURIAL, CONCEALED, OR DIRECT SUNLIGHT EXPOSURE, AND 90 DEGREES C INSULATED CONDUCTORS. FITTINGS SHALL MEET REQUIREMENTS OF NEMA TC AND BE SLIP-ON TYPE.
5. PVC-COATED RIGID GALVANIZED CONDUIT SHALL MEET REQUIREMENTS OF NEMA RN. THE MATERIAL SHALL MEET REQUIREMENTS OF NEMA C80.1 AND UL 6. EXTERIOR FINISH SHALL BE PVC COATING, 40 MILS NOMINAL THICKNESS, AND BOND TO METAL WITH A TENSILE STRENGTH GREATER THAN PVC. INTERIOR FINISH SHALL BE A URETHANE COATING, 2 MILS NOMINAL THICKNESS. THREADS SHALL BE HOT-DIPPED GALVANIZED AND FACTORY COATED WITH URETHANE. THE CONDUIT SHALL BE BENDABLE WITHOUT DAMAGE TO EITHER INTERIOR OR EXTERIOR COATING. THE FITTINGS SHALL BE PVC-COATED RIGID GALVANIZED STEEL AND MEET REQUIREMENTS OF UL 514B. FITTINGS, PVC-COATED BY CONDUIT MANUFACTURER. CONDUIT BODIES SHALL BE CAST METAL HOT-DIPPED GALVANIZED OR URETHANE FINISH. COVER SHALL BE OF SAME MATERIAL AS CONDUIT BODY. PVC-COATED BY CONDUIT MANUFACTURER.FINISH: 40-MIL PVC EXTERIOR, 2-MIL URETHANE INTERIOR.OVERLAPPING PRESSURE SEALING SLEEVES. CONDUIT HANGERS, ATTACHMENTS, AND ACCESSORIES: PVC-COATED. MANUFACTURERS: ROBROY INDUSTRIES, OCAL,"OR-EQUAL."



PLAN
SCALE: 1/4" = 1'-0"

Tahoe-Truckee Sanitation Agency
13720 Butterfield Drive
Truckee, California 96161
(530) 587-2525

Carollo Engineers, Inc.
50 West Liberty Street, Suite 300
Reno, Nevada 89501
(775) 324-4427

REGISTERED PROFESSIONAL ENGINEER
SCOTT J. FLEMING
No. 21670
Exp. 3-31-24
CIVIL
STATE OF CALIFORNIA
9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

ELECTRICAL

ELECTRICAL PLAN

VERIFY SCALE

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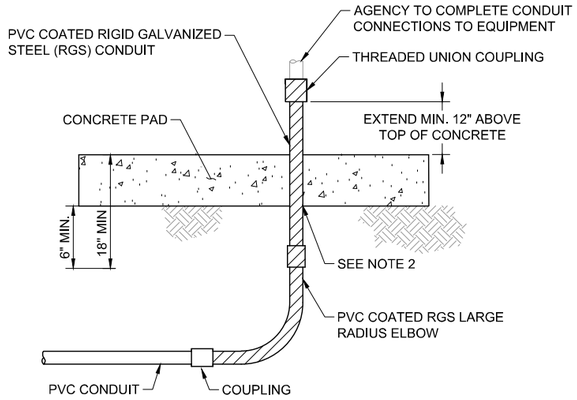
NO.	REVISIONS	APPROVED BY	DATE

DESIGNED BY: MD | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 13 OF 14

DWG NO. 49-E-201

DATE SEPTEMEBER 2023



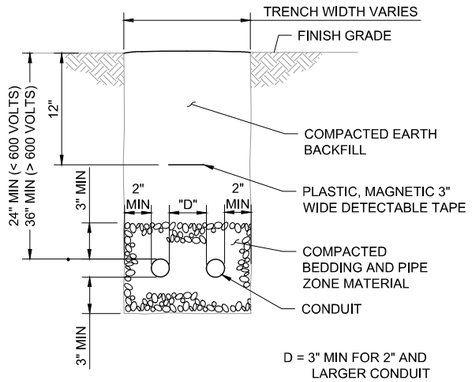
NOTES:

1. PROVIDE PVC-RGS CONDUIT ON ALL BENDS OF 45 AND LARGER. THE TRANSITION FROM PVC TO PVC-RGS SHALL BE A MINIMUM OF 5'.
2. SWEEP SHALL BE COMPLETE PRIOR TO CONDUIT PENETRATION THROUGH SLAB. ONLY STRAIGHT CONDUIT SHALL BE INSTALLED IN CONCRETE.

CONDUIT STUB UP UNDER SLAB

1
49-C-202

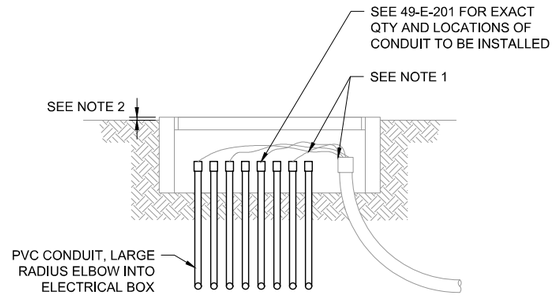
SCALE: NTS



TRENCH AND CONDUIT PLACING

2
49-E-201

SCALE: NTS



NOTES:

1. AGENCY WILL PERFORM ALL OTHER ELECTRICAL WORK AND CONNECTIONS AFTER THE CONTRACTOR WORK IS COMPLETE.
2. CONTRACTOR SHALL ADJUST ELECTRICAL BOX TO GRADE.

ELECTRICAL BOX

3
49-C-202

SCALE: NTS

Tahoe-Truckee Sanitation Agency
13720 Butterfield Drive
Truckee, California 96161
(530) 587-2525

Carollo Engineers, Inc.
50 West Liberty Street, Suite 300
Reno, Nevada 89501
(775) 324-4427

REGISTERED PROFESSIONAL ENGINEER SCOTT J. FLEMING No. 61071 Exp. 3-31-24 CIVIL STATE OF CALIFORNIA

9/8/2023

SODIUM HYPOCHLORITE FOUNDATION PROJECT

ELECTRICAL

ELECTRICAL DETAILS

VERIFY SCALE

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NO.	REVISIONS	APPROVED BY	DATE

DESIGNED BY: SF | DRAWN BY: SF | CHECKED BY: AC | APPROVED BY: RP

SHEET 14 OF14

DWG NO. 49-E-401

DATE SEPTEMEBER 2023

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TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: V-4
Subject: Discussion on efforts to update the Agency's Waste Discharge Requirements.

Background
In January of 2002 the California Regional Water Quality Control Board issued the Agency Revised Waste Discharge Requirements (WDR) Board Order No. R6T-2002-0030 setting the current requirements of our effluent discharge and plant capacity. Regulation of the facility began with WDR 6-74-44 in 1974, revisions were then done again in 1977, 1981(twice), 1987, 1990, and 1996.

With the current WDR now reaching 22 years of age and with the pending CIP projects outlined in the Master Plan, Agency staff believes it is in the Agency's best interest to open the discussion with the Regional Board regarding updating our WDR. The discussion today is to inform and discuss this process with the Agency Board of Directors.

Fiscal Impact
None.

Attachments
Waste Discharge Requirements Board Order No. R6T-2002-0030.

Recommendation
Discussion Only Item.

Review Tracking

Submitted By: _____
Richard Pallante
General Manager

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. R6T-2002-0030
WDID NO. 6A290011000

REVISED WASTE DISCHARGE REQUIREMENTS

FOR

TAHOE-TRUCKEE SANITATION AGENCY
MARTIS VALLEY WASTEWATER TREATMENT PLANT
AND ASSOCIATED MAINTENANCE ACTIVITIES

Nevada County

The California Regional Water Quality Control Board, Lahontan Region (Regional Board) finds:

1. Discharger

   On January 10, 2002, the Tahoe-Truckee Sanitation Agency (TTSA) submitted a completed revised Report of Waste Discharge for the expansion of the Martis Valley Wastewater Treatment Plant. For the purpose of this Order, the Tahoe-Truckee Sanitation Agency (TTSA), as the operator, facility owner, and landowner, is referred to as the "Discharger".

2. Facility

   For purposes of this Order, the land, buildings and equipment associated with the operations of the Martis Valley Wastewater Treatment Plant, and associated routine maintenance activities, are referred to as the "Facility".

3. Facility Location

   The Facility is located at 13720 Joerger Drive, within the town limits of the Town of Truckee, Nevada County APN 49-010-20, as shown in Attachment "A", which is made a part of this Order. The Facility location is within Sections 7 and 12, T17N, R17E, MDB&M, which is within the Truckee River Hydrologic Unit. The Truckee River borders the northern side of the Facility and Martis Creek is located east of the Facility.

4. Order History

   Regulation of the Facility began with the adoption of waste discharge requirements (WDRs) under Board Order No. 6-74-44, adopted April 25, 1974. The Board revised those WDRs under Board Order No. 6-77-27 adopted May 12, 1977. At the request of TTSA, the Board revised WDRs in 1981 by adopting Board Order No. 6-81-61, authorizing a 2.57 million gallons per day (MGD) maximum 7-day average flow capacity increase (from 4.83 to 7.4 MGD) upon completion of a proposed treatment facility expansion. The Board again revised

WDRs under Board Order No. 6-81-71 on September 17, 1981, authorizing the treatment facility capacity to be immediately increased from 4.83 to 5.83 MGD. The 1.0 MGD increase in capacity was part of the proposed 2.57 MGD capacity increase mentioned above, and occurred before the proposed treatment facility expansion was completed. The Board then updated the WDRs on February 19, 1987 by adopting Board Order No. 6-87-21, and again updated the WDRs on April 11, 1990 by adopting Board Order No. 6-90-27. The Board amended the WDRs on October 3, 1996, by adopting Board Order 6-90-27A1.

5. Reason for Action

The Regional Board is revising the WDRs to permit an increase in Facility capacity and change in treatment methods for nitrogen removal, and to modify the monitoring and reporting program in response to these changes. The revised WDRs also serve as an update as part of a statewide program to periodically review and update WDRs, and also to incorporate changes to conform to the revised Basin Plan.

6. TTSA as a Regional Entity

The TTSA is designated as the regional entity to transport, treat and dispose wastewater from the North Tahoe Public Utility District (NTPUD), Tahoe City Public Utility District (TCPUD), Alpine Springs County Water District (ASCWD), Squaw Valley Public Services District (SVPSD), Truckee Sanitary District (TSD) and the Truckee River Canyon area. Reference to member entities of the TTSA in the Lake Tahoe Basin specifically includes NTPUD and TCPUD which are subject to the requirements of the California-Nevada Interstate Water Compact, referenced in Finding No. 19. ASCWD, SVPSD, TSD and the Truckee River Canyon Area are not within the Lake Tahoe Basin; and therefore, are not subject to the California-Nevada Interstate Water Compact.

7. Description of Existing Facility

The wastewater treatment facility provides tertiary level treatment. The treatment processes consist of influent screening, grit removal, primary sedimentation, pure oxygen activated sludge, biological phosphorus removal, chemical treatment, mixed media filtration, ion exchange ammonia removal, and final chlorination. Organic sludge is digested anaerobically, dewatered and transported to a landfill. Waste chemical sludge is dewatered and also transported to a landfill. The Discharger is considering alternative disposal sites for sludge, which will be subject to Regional Board staff review and approval. Emergency storage of wastewater is provided at the former TSD wastewater treatment ponds.

8. Existing Facility Capacity

The TTSA is capable of transporting, treating and disposing of a maximum 7-day average municipal wastewater flow, during the summer months of 7.4 MGD.

9. Description of and Capacity of Proposed Expansion

The proposed expansion of the Facility will be capable of transporting, treating and disposing of a maximum 7-day average flow during the summer months of 9.6 MGD. The proposed expansion will include numerous replacement, upgraded, modified and additional components and units to provide additional capacity and improve treatment, as described as Alternative 3 in the *Draft Project Report* dated April 1999 and modified by the *Updated Project Report* dated January 2002. The proposed expansion will also replace the existing ion-exchange nitrogen removal system with a Biological Nitrogen Removal (BNR) system for the full 9.6 MGD capacity of the enlarged plant. The existing ion exchange process shall only be operated if there is a process upset during the startup of the new BNR process. Following a three-month period of successful operation of the new BNR process, the ion exchange process will only be operated as a standby unit for emergencies. Additional treatment provided by the Soil Aquifer Treatment (SAT) process will also be acknowledged. The expansion will also incorporate enlargement and improvements to the Truckee River Interceptor (TRI) and the emergency storage facilities at the former TSD Sewage Treatment Lagoons.

The proposed expansion also identifies additional improvements which will not be constructed immediately, but rather at a later date when needed. Among these improvements are an additional disposal field and a spray irrigation system, which will require subsequent approval by the Regional Board.

10. Point of Effluent Disposal

Plant effluent is discharged to subsurface disposal trenches, the boundaries of which are shown on Attachment "A", which is made a part of this Order. The disposal field is located in a portion of the SE/4, Section 7, T17N, R17E, MDB&M and are within the Truckee River Hydrologic Unit.

A second disposal field will be constructed when needed for additional disposal capacity. The location of the proposed second disposal field is also shown on Attachment "A". A pilot project operated in 1991 demonstrated the technical feasibility of disposing effluent by a spray irrigation system from April through November. The proposed location of a full-scale effluent spray irrigation system is also shown on Attachment "A". The Discharger does not intend to construct the full-scale effluent spray irrigation system until a later date when needed to meet effluent limitations. The proposed location of a full-scale spray irrigation system is also shown on Attachment "A". Other than small volumes used for plant irrigation, the three areas shown on Attachment "A" are the only designated disposal sites.

11. Site Hydrogeology

Soils investigations of the effluent disposal areas indicate that they are located over permeable glacial outwash (Tahoe outwash) deposits 70 to 100 feet thick. The sites are further underlain by the relatively impermeable clayey deposit of the Truckee Formation. Ground water elevations in both disposal areas are known to be at least 40 feet below the ground surface.

Hydrogeologic investigations, a mathematical simulation model, and bromide tracer studies indicate that plant effluent discharged to the subsurface disposal system will migrate from the disposal site toward the Truckee River and Martis Creek, a tributary of the Truckee River. The Truckee River and Martis Creek are both within a half mile of the disposal sites.

Additional studies have been conducted by TTSA to demonstrate and quantify the ability of the aquifer to remove nitrogen, phosphorus and bacteriological constituents in treated effluent.

12. Lahontan Basin Plan

The Regional Board adopted the *Water Quality Control Plan for the Lahontan Region* (Basin Plan) on March 31, 1995. This Order implements the Basin Plan, as amended.

13. Receiving Waters

The Facility discharges to ground waters of the Martis Valley Ground Water Basin. Studies indicate that plant effluent discharged to the subsurface disposal system will migrate from the disposal site toward the Truckee River and Martis Creek, which are within a half mile of the disposal site.

14. Beneficial Uses of Ground Water

The beneficial uses of ground waters of the Martis Valley Ground Water Basin, as set forth and defined in the Basin Plan, are:

a. municipal and domestic water supply;
b. agricultural supply; and
c. freshwater replenishment.

15. Beneficial Uses of Surface Water

The beneficial uses of the Truckee River, as set forth and defined in the Basin Plan, are:

a. municipal and domestic water supply;
b. agricultural supply;
c. industrial service supply;
d. ground water recharge;
e. freshwater replenishment;
f. hydropower generation;
g. water contact recreation;
h. non-contact water recreation;
i. commercial and sport fishing;
j. cold freshwater habitat;
k. wildlife habitat;
l. rare, threatened, or endangered species;

m. migration of aquatic organisms; and
n. spawning, reproduction, and development.

The beneficial uses of Martis Creek, as set forth and defined in the Basin Plan, are:

a. municipal and domestic supply
b. agricultural supply;
c. ground water recharge;
d. water contact recreation;
e. non-contact water recreation;
f. commercial and sport fishing;
g. cold freshwater habitat;
h. wildlife habitat;
i. rare, threatened, or endangered species;
j. migration of aquatic organisms; and
k. spawning, reproduction, and development.

16. Control Measures for the Lake Tahoe Basin

The "Control Measures for the Lake Tahoe Basin" is incorporated within Chapter 5 of the Basin Plan. This Chapter incorporates control measures that were previously included in the *Lake Tahoe Basin Water Quality Plan*. Included in these control measures are prohibitions of the discharge or threatened discharge of solid or liquid waste, including earthen materials from any new subdivision, new development in stream environment zones, new development not in conformance with land capability, new development not offset by implementation of remedial erosion control measures, to ground or surface waters or to stream environment zones in the Lake Tahoe Basin. To implement those and other provisions necessary to protect the water quality of the Lake Tahoe Basin, the control measures require that the Regional Board, in establishing WDRs for sewerage agencies servicing the Lake Tahoe Basin, to include the following:

a. Conditions shall be set in WDRs to prohibit the sewerage agencies from providing any connection serving new development which is not in accordance with the Plan.

b. Conditions shall be set in WDRs to require the development of raw sewage overflow preventative maintenance and spill response programs.

c. Conditions shall be set in WDRs to require the submission of annual reports providing updated estimates of available sewage treatment capacity within the respective sewerage systems.

d. Conditions shall be set in WDRs to require the determination of which structures in the Lake Tahoe Basin are not connected to a sewerage collection, treatment and export system.

17. Martis Creek Watershed Phosphorus Study

The receiving water objectives for Martis Creek allow minimal assimilative capacity for additional phosphorus. The proposed project may cause phosphorus levels in Martis Creek to exceed receiving water limitations. The current mean of monthly means phosphorus concentration above TTSA's influence upon the creek is 0.05 mg/l, which is also the receiving water limitation for the entire creek. The TTSA projects that with or without the proposed expansion, by 2010 this concentration may be elevated to 0.06 mg/l. To identify phosphorus sources and assess control measures that could be imposed within the Martis Creek watershed to reduce phosphorus loading to the creek and provide additional assimilative capacity for future TTSA discharges, the TTSA will provide funding for and ensure the completion of a study to identify existing and future sources of phosphorus within the watershed, potential control measures that could be implemented, and a monitoring plan to evaluate the effect of such control measures upon Martis Creek thoughout its watershed.

18. Consideration of Water Rights

Section 174 of the California Water Code states in part:

"It is also the intention of the Legislature to combine the water rights and the water pollution and water quality functions of state government to provide for consideration of water pollution and water quality, and availability of unappropriated water whenever applications for appropriation of water are granted or waste discharge requirements or water quality objectives are established."

19. California-Nevada Interstate Compact

The California-Nevada Interstate Water Compact concerning the waters of the Lake Tahoe, Truckee River, Carson River and Walker River Basins was approved by the Legislatures of California and Nevada in 1970 and 1971, respectively. The United States Congress has not ratified the Compact. However, the states of California and Nevada are using the Compact as a guideline for allocation of water between the two states in those watersheds.

20. California Environmental Quality Act Compliance

An Environmental Impact Report for the proposed expansion of the Facility was adopted by the TTSA on December 19, 2000 in accordance with the provisions of the California Environmental Quality Act (Public Resources Code, §21000 et seq.). The Regional Board has considered the CEQA document and subsequent addendum to that document prepared by the lead agency. The following significant effects of the proposed expansion were identified in the CEQA document:

a. Potential temporary significant short-term impact (increase in dust and noise) on local residential land uses adjoining TTSA facility during construction. Pursuant to CEQA, a Mitigation Monitoring Plan (MMP) has been prepared, summarizing mitigation that will be implemented to bring this potentially significant impact to nonsignificant levels, and also describes the duration that the mitigation will be implemented for and

includes the responsible parties for ensuring the success of the mitigation. The contractor will be responsible for implementation of the mitigation, and TTSA will be responsible for monitoring. The Regional Board is not responsible for implementation and monitoring of mitigation measures associated with this potentially significant impact.

b. Potential temporary significant short-term impact (increase in dust and noise near residential land adjoining construction areas) during TSD ponds and TRI modifications. Pursuant to CEQA, a Mitigation Monitoring Plan (MMP) has been prepared, summarizing mitigation that will be implemented to bring this potentially significant impact to nonsignificant levels. The MMP also describes the duration that the mitigation will be implemented for and includes the responsible parties for ensuring the success of the mitigation. The contractor will be responsible for implementation of the mitigation, and TTSA will be responsible for monitoring. The Regional Board is not responsible for implementation and monitoring of mitigation measures associated with this potentially significant impact.

21. Public Notification

The Regional Board has notified the Discharger and all known interested parties of its intent to adopt updated waste discharge requirements for the Facility.

22. Consideration of Public Comments

The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Discharger shall comply with the following:

I. REVIEW PROCEDURES FOR NEW PROJECTS

A. The TTSA shall submit to the Regional Board staff all projects which meet any of the following four criteria:

1. Require a building permit
2. Require a grading permit
3. Have a soil disturbance of more than 1,000 square feet
4. Propose soil disturbance within a stream environment zone

B. No projects submitted for review per Review Procedure A. above may commence prior to the Executive Officer or the Regional Board approving the measures and facilities proposed for siltation and erosion control.

C. During any emergency where the public health or welfare is threatened, the TTSA is authorized to take corrective action and shall use Best Management Practices for control of siltation and erosion as the situation demands; Regional Board staff shall be notified as soon as practical.

II. DISCHARGE SPECIFICATIONS

A. Effluent Limitations

1. The discharge to waters of the State shall not contain trace elements, pollutants, contaminants, or combinations therof, in concentrations which are toxic to humans or to aquatic or terrestrial plant or animal life.

2. Treated wastewater made available for percolation shall not contain concentrations of parameters in excess of the following limits:

Constituent	Effluent Limitations Monthly average[a]	Maximum[b]
Suspended Solids	10 mg/l	20 mg/l
Turbidity	---	10 NTU
Total Phosphorus	0.8 mg/l	1.5 mg/l
Chemical Oxygen Demand	45 mg/l	60 mg/l

[a]The "monthly average" is the arithmetic mean of measurements made during a month.
[b]The "daily maximum" is the highest daily 24-hour composite measurement during the monitoring period.

3. All treated wastewater made available for percolation shall have a dissolved oxygen concentration greater than 0.5 mg/l.

4. Treated wastewater made available for percolation shall have a total trihalomethanes concentration of less than 50 ppb, measured as an arithmetic mean of all samples taken during a calendar year.

5. Treated wastewater made available for percolation shall have a 7-day mean of no more than 23 total coliform organisms, and shall have a mean of any two consecutive samples of no more than 240 total coliform organisms.

6. Effective immediately and continuing until completion of the treatment plant expansion, or until completion of BNR for the existing rated capacity if expansion does not occur, treated wastewater made available for percolation shall not contain concentrations in excess of the following limits:

	Effluent Limitations	
Constituent	Annual average[c]	Maximum[b]
Total Dissolved Solids	600 mg/l	---
Chloride	200 mg/l	---

[b]The "daily maximum" is the highest daily 24-hour composite measurement during the monitoring period.
[c]The "Annual Average" is the arithmetic mean of all measurements made during a calendar year.

7. Effective immediately and continuing until four years after the completion of the treatment plant expansion, or until four years after the completion of BNR for the existing rated capacity if expansion does not occur, treated wastewater made available for percolation shall not contain concentrations in excess of the following limits:

	Effluent Limitations	
Constituent	Monthly average[a]	Maximum[b]
Total Nitrogen (as N)	9 mg/l	12 mg/l

[a]The "monthly average" is the arithmetic mean of measurements made during a month.
[b]The "daily maximum" is the highest daily 24-hour composite measurement during the monitoring period.

The TTSA shall use all existing wastewater treatment facilities capable of reducing the monthly average total nitrogen concentration below 9.0 mg/l in all treated wastewater made available for percolation. If objectionable alterations in the species composition of any surface waters occur in the biomass and/or objectionable alterations in the species composition of any surface waters occur as a result of percolating wastewater effluent, the TTSA shall reduce effluent nitrogen concentrations below the Effluent Limitation of 9.0 mg/l. The reduction shall be made within 30 days after being notified by the Regional Board.

B. Flow Limitations

1. Effective immediately, and continuing until the completion of the treatment plant expansion, the following flow limitations of the facility shall be effective:

   a. From June 21 through September 21 of any year, the flow of wastewater to the treatment and disposal facilities during any seven (7) consecutive days shall not exceed an arithmetic average of 7.4 MGD.

   b. The maximum instantaneous flow rate of wastewater through the treatment facilities shall not exceed 13.0 MGD.

2. Immediately after the completion of the treatment plant expansion, the following flow limitations of the facility shall be effective:

   a. From June 21 through September 21 of any year, the flow of wastewater to the treatment and disposal facilities during any seven (7) consecutive days shall not exceed an arithmetic average of 9.6 MGD.

   b. The maximum instantaneous flow rate of wastewater through the treatment facilities shall not exceed 15.4 MGD.

3. The TTSA and its member entities in the Lake Tahoe Basin shall not issue sewer connection permits to a new development unless the Regional Board has determined that the new development is consistent with the Lake Tahoe Basin Water Quality Plan. A determination by the TRPA of consistency can be relied upon by the TTSA and its member entities in the Lake Tahoe Basin unless the Regional Board specifies in writing otherwise. TTSA and its member entities in the Lake Tahoe Basin shall notify the Regional Board of any such determination made by the TRPA before issuing a sewer connection permit.

4. TTSA shall submit annual reports providing updated estimates of available sewage collection export and treatment capacity within its system. TTSA shall also submit in the same report, updated estimates of available sewage collection and export capacity within the individual systems of its member entities. These reports shall be submitted to the Regional Board not later than April 1 of each year, providing the following information for the previous calendar year:

   a. The effective capacity of each key element of the collection, treatment, export and disposal systems.

   b. Current high flows.

c. An allocation of capacity among: (1) current users; (2) projects for which connection permits have been issued; (3) capacity currently used or to be reserved for public agencies; (4) projects for which will-serve letters or similar commitments have been issued; and (5) available capacity, listed in terms for total flow and single family dwelling unit equivalents. Available capacity is determined as the differences between items 1-4 and the effective capacity of the most limiting component of the wastewater system.

d. The number of additional connection permits or service commitments to be issued in the coming year, and the flow projected from these units.

e. The number of subdivided vacant residential, commercial or public service lots within its boundary which are not located in subdivisions where onsite domestic wastewater disposal has been approved indefinitely by all appropriate agencies.

f. Any proposed actions, including time schedules and financial plans, which will provide increases in effective capacity.

C. Receiving Water Limitations

1. The discharge shall not cause the following receiving water limitations for the Truckee River Hydrologic Unit to be exceeded:

Constituent	Units	Truckee River below Martis Cr [1/]	Truckee River at Stateline [1/]
Total Dissolved Solids	mg/l	80	75
Chloride	mg/l	10	8
Sulfate	mg/l	5	5
Total Iron	mg/l	0.29	0.30
Nitrate Nitrogen	mg/l as N	0.20	0.08
Total Kjeldahl Nitrogen	mg/l as N	0.20	0.32
Total Nitrogen	mg/l as N	0.40	0.40
Total Phosphorus	mg/l as P	0.05	0.05
Boron	mg/l	---	1.0 [2/]

[1/] Arithmetic mean of monthly means
[2/] Maximum limitation

2. The discharge shall not cause the following receiving water limitations for Martis Creek to be exceeded:

Constituent	Units	Mean [3/]
Total Dissolved Solids	mg/l	150
Chloride	mg/l	25
Sulfate	mg/l	8
Total Iron	mg/l	0.40
Nitrate Nitrogen	mg/l as N	1.00
Total Kjeldahl Nitrogen	mg/l as N	0.45
Total Nitrogen	mg/l as N	1.45
Total Phosphorus	mg/l as P	0.05

[3/] Arithmetic mean of monthly means

3. Effective immediately, and continuing for the life of the project, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall not contain concentrations of parameters in excess of the following limits prior to entering Martis Creek and/or the Truckee River:

	Effluent Limitations	
Constituent	Monthly average[a]	Maximum[b]
Chemical Oxygen Demand	15 mg/l	40 mg/l
Un-ionized Ammonia (as N)	---	0.20 mg/l
Total Phosphorus (as P)	0.3 mg/l[c]	---
Fecal Coliform Bacteria	---	2.2 MPN/100 ml[d]

[a]The "monthly average" is the arithmetic mean of measurements made during a month.
[b]The "daily maximum" is the highest daily 24-hour composite measurement during the monitoring period.
[c]Annual Average
[d]2.2 – mean of 7-day average

4. Effective immediately, and continuing for the life of the project, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall have a pH of not less than 6.5 units nor greater than 8.5 units.

5. Beginning four years after completion of the treatment plant expansion, or four years after completion of BNR for the existing rated capacity if expansion does not occur, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall not contain concentrations of total

for percolation (as measured at Well 31) shall not contain concentrations of total nitrogen in excess of the following limits prior to entering Martis Creek and/or the Truckee River:

Constituent	Monthly Average[a]	Daily maximum[b]
Total Nitrogen (as N)		
May 1-October 31	2.0[e]	---
Annual Average (Jan 1-December 31)	3.0[e]	---

[a]The "monthly average" is the arithmetic mean of measurements made during a month.
[b]The "daily maximum" is the highest daily 24-hour composite measurement during the monitoring period.
[e]Average of monthly averages for monitoring period. Note that in addition to the concentration requirements, the discharge shall not exceed the mass loading as shown below.

6. Effective immediately, and continuing for the life of the project, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall not exceed the following mass loading prior to entering Martis Creek and/or the Truckee River:

Constituent	Mass Loading Limitation (lbs/day)
Total Phosphorus (as P)	24 lbs/day (12-month average)[f]
Total Nitrogen (as N)	
May 1- October 31	128 lbs/day (6-month average)[f]
Yearly Average	204 lbs/day (12-month average)[f]

[f]Average of monthly averages for six month period or for calendar year

7. On or before completion of the treatment plant expansion, or completion of BNR for the existing rated capacity if expansion does not occur, treated wastewater which was made available for percolation (as measured at Well 31) shall not exceed the following mass loadings prior to entering Martis Creek and/or the Truckee River:

Constituent	Mass Loading Limitation (lbs/day)
Total Dissolved Solids	AAF[g] x 415 mg/l x 8.345 (annual average)
Chloride	AAF[g] x 115 mg/l x 8.345 (annual average)

[g]AAF = average annual flow

8. Beginning with completion of the treatment plant expansion, or with the completion of BNR for the existing rated capacity if expansion does not occur, and continuing for the next four years, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall not exceed the following mass loading prior to entering Martis Creek and/or the Truckee River:

Constituent	Mass Loading Limitation (lbs/day)
Total Dissolved Solids	AAF^g x (35 x (9.6-$M7DADF^h$)/2.2+360) x 8.345 or AAF^g x 395 mg/l x 8.345, whichever is less (annual average)
Chloride	AAF^g x (15 x (9.6-$M7DADF^h$)/2.2+100) x 8.345 or AAF^g x 115 mg/l x 8.345, whichever is less (annual average)

[g]AAF = average annual flow
[h]M7DADF = maximum 7-day average dry weather flow

9. Beginning four years after completion of the treatment plant expansion, or four years after completion of BNR for the existing rated capacity if expansion does not occur, ground water containing treated wastewater which was made available for percolation (as measured at Well 31) shall not exceed the following mass loadings prior to entering Martis Creek and/or the Truckee River:

Constituent	Mass Loading Limitation (lbs/day)
Total Dissolved Solids	AAF^g x 360 mg/l x 8.345 or 24,514, whichever is less (annual average)
Chloride	AAF^g x 100 mg/l x 8.345 or 6,809, whichever is less (annual average)

[g]AAF = average annual flow

10. Effective immediately and continuing throughout the life of the project, the discharge of treated wastewater effluent to ground waters shall not cause a violation of the following water quality objectives for waters of the Martis Valley Ground Water Basin:

a. Tastes and Odors – The taste and odor of ground waters shall not be altered.

b. Bacteria – In ground waters designated as MUN, the median concentration of coliform organisms over any seven-day period shall be less than 1.1/100 milliliters.

c. Radioactivity – Ground waters designated as MUN shall not contain concentrations of radionuclides in excess of the limits specified in Table 4 of Section 64443 (Radioactivity) of Title 22 of the California Code of Regulations which is incorporated by reference into the Basin Plan. This incorporation-by-reference in prospective including future changes to the incorporated provisions as the changes take effect.

d. Chemical Constituents – Ground waters designated as MUN shall not contain concentrations of chemical constituents in excess of the maximum contaminant level or secondary maximum contamination level based upon drinking water standards specified in the following provisions of Title 22 of The California Code of Regulations which are incorporated by reference into the Basin Plan: Table 64431-A of Section 64431 (Inorganic Chemicals), Table 64431-B of Section 64431 (Flouride), Table 64444-A of Section 64444 (Organic Chemicals, Contaminant Levels-Consumer Acceptance Limits), and Table 64449-B of Section 64449 (Secondary Maximum Contaminant Levels-Ranges). This incorporation-by-reference is prospective including future changes to the incorporated provisions as the changes take effect.

Ground waters designated as AGR shall not contain concentrations of chemical constituents in amounts that adversely affect the water for beneficial uses (i.e., agricultural purposes).

Ground waters shall not contain concentrations of chemical constituents in amounts that adversely affect the water for beneficial uses.

11. The operation of the facility shall not cause a violation of the following water quality objectives for surface waters of the Truckee River Hydrologic Unit:

a. Turbidity – The turbidity shall not be raised above 3 Nephelometric Turbidity Units (NTU) mean of monthly means. (This objective is approximately equal to the State of Nevada standard of 5 NTU sample mean).

b. Floating Material – Waters shall not contain floating material, including solids, liquids, foams and scum, in concentrations that cause nuisance or adversely affect the water for beneficial uses.

For natural high quality waters, the concentrations of floating material shall not be altered to the extent that such alterations are discernable at the 10 percent significance level.

c. Suspended Materials – Waters shall not contain suspended material in concentrations that cause a nuisance or adversely affect the beneficial uses.

For natural high quality waters, the concentrations of suspended material shall not be altered to the extent that such alterations are discernable at the 10 percent significance level.

d. Settleable Material – Waters shall not contain substances in concentrations that result in deposition of material that causes nuisance or that adversely affects the water for beneficial uses. For natural high quality waters, the concentrations of settleable material shall not be raised by more than 0.1 milliliter per liter.

e. Color – The color shall not exceed an eight (8) Platinum Cobalt Unit mean of monthly means (approximately equivalent to the State of Nevada standard of a twelve (12) Platinum Cobalt Unit sample mean).

f. Tastes and Odors – The taste and odor shall not be altered.

g. Algal Growth Potential – The mean monthly algal growth potential shall not be altered to the extent that such alterations are discernible at the 10 percent significance level. This objective does not apply to Martis Creek; however, nuisance and pollution levels of algal growth shall not be discernible at these stations.

h. Biostimulatory Substances – The concentrations of biostimulatory substances shall not be altered in an amount that could produce an increase in aquatic biomass to the extent that such increases in aquatic biomass are discernible at the 10 percent significance level. See pg. 3-9 of Basin Plan for additional language.

i. Species Composition – The species composition of aquatic organisms shall not be altered to the extent that such alterations are discernible at the 10 percent significance level. See pg. 3-9 of Basin Plan for additional language.

j. pH – Changes in normal ambient pH levels shall not exceed 0.5 pH units.

k. Dissolved Oxygen – The dissolved oxygen concentrations shall not be depressed by more than 10 percent, below 80 percent saturation, or below 7.0 mg/l, whichever is more restrictive.

l. Bacteria – Waters shall not contain concentrations of coliform organisms attributable to anthropogenic sources, including human and livestock waste. The fecal coliform concentration during any 30-day period shall not exceed a log mean of 20/100 ml, nor shall more than 10 percent of all samples collected during any 30-day period exceed 40/100 ml.

m. Temperature – The natural receiving water temperature shall not be altered unless it can be demonstrated to the satisfaction of the Regional Board that such an alteration in temperature does not adversely affect the water for beneficial uses.

n. Toxicity – All waters shall be maintained free of toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal or aquatic life.

o. Pesticides – Pesticide concentrations, individually or collectively, shall not exceed the lowest detectable levels, using the most recent detection procedures available. There shall not be a an increase in pesticide concentrations found in bottom sediments. There shall be no detectable increase in bioaccumulation of pesticides in aquatic life.

Waters designated as MUN shall not contain concentrations of pesticides or herbicides in excess of the limiting concentrations specified in Table 64444-A of Section 6444 (Organic Chemicals) of Title 22 of the California Code of Regulations which is incorporated by reference into the Basin Plan. This incorporation-by-reference is prospective including future changes to the incorporated provisions as the changes take effect.

Pesticides are defined here and in the Basin Plan to include insecticides, herbicides, rodenticides, fungicides, piscides, and all other economic poisons. An economic poison is any substance intended to prevent, repel, destroy, or mitigate the damage from insects, rodents, predatory animals, bacteria, fungi or weeds capable of infesting or harming vegetation, humans or animals.

p. Oil and Grease – Water shall not contain oils, greases, waxes or other materials in concentrations that result in a visible film or coating on

the surface of the water or on objects in the water, that cause nuisance, or that otherwise adversely affect the water for beneficial uses.

q. Sediment – The suspended sediment load and suspended sediment discharge rate of surface waters shall not be altered in such a manner as to cause nuisance or adversely affect the water for beneficial uses.

r. Radioactivity – Radionuclides shall not be present in concentrations which are deleterious to human, plant, animal, or aquatic life nor which result in the accumulation of radionuclides in the food web to an extent which presents a hazard to human, plant, animal, or aquatic life.

Waters designated as MUN shall not contain concentrations of radionuclides in excess of the limits specified in Table 4 of Section 64443 (Radioactivity) or Title 22 of the California Code of Regulations which is incorporated by reference into the Basin Plan. This incorporation-by-reference is prospective including future changes to the incorporated provisions as the changes take effect.

s. Non-degradation of Aquatic Communities and Populations – All wetlands shall be free from substances attributable to wastewater or other discharges that produce adverse physiological responses in humans, animals, or plants; or which lead to the presence of undesirable or nuisance aquatic life. All wetlands shall be free from activities that would substantially impair the biological community as it naturally occurs due to physical, chemical and hydrological processes.

t. Chlorine, Total Residual – For the protection of aquatic life, total chlorine residual shall not exceed either a median value of 0.002 mg/l or a maximum value of 0.003 mg/l. Median values shall be based on daily measurements taken within any six-month period.

u. Chemical Constituents - Waters designated as MUN shall not contain concentrations of chemical constituents in excess of the maximum contaminant level or secondary maximum contamination level based upon drinking water standards specified in the following provisions of Title 22 of The California Code of Regulations which are incorporated by reference into the Basin Plan: Table 64431-A of Section 64431 (Inorganic Chemicals), Table 64431-B of Section 64431 (Flouride), Table 64444-A of Section 64444 (Organic Chemicals, Contaminant Levels-Consumer Acceptance Limits), and Table 64449-B of Section 64449 (Secondary Maximum Contaminant Levels-Ranges). This incorporation-by-reference is prospective

including future changes to the incorporated provisions as the changes take effect.

Waters designated as AGR shall not contain concentrations of chemical constituents in amounts that adversely affect the water for beneficial uses (i.e., agricultural purposes).

v. Un-Ionized Ammonia - The neutral, un-ionized ammonia species (NH_3^o) is highly toxic to freshwater fish. The fraction of toxic NH_3^o to total ammonia species ($NH_4^+ + NH_3^o$) is a function of temperature and pH. Tables 3-1 to 3-4 of the Basin Plan were derived from USEPA ammonia criteria for freshwater. Ammonia concentrations shall not exceed the values listed in these tables. For temperature and pH values not explicitly in these tables, the most conservative value neighboring the actual value may be used or criteria can be calculated from numerical formulas developed by the USEPA. Waters shall not contain concentrations of chemical constituents in amounts that adversely affect the water for beneficial uses.

D. Emergency Storage

1. The TTSA shall continue to provide emergency wastewater storage facilities capable of preventing treatment and disposal facility overloading or unauthorized discharges due to excessive flows or system breakdowns.

2. Emergency storage facilities shall have a capacity of at least 24 million gallons in addition to what is normally stored in the 15 million gallon emergency retention basin during routine treatment procedures.

3. Emergency storage facilities shall be sealed to prevent percolation of wastewater. The offsite ponds "A" and "B" have been lined with one foot of bentonite clay and shall be maintained as necessary to ensure the liner integrity.

4. All stored sewage shall be pumped to wastewater treatment and disposal facility.

5. The discharge of untreated or partially treated wastewater to emergency storage facilities is prohibited, except when any of the following conditions occur:

   a. Loss of electrical power at the wastewater treatment facility.

   b. Major equipment failure at the wastewater treatment facility.

   c. Wastewater treatment process upset.

d. Excessive infiltration/inflow into sewage facilities.

e. Any other emergency that could threaten the public health.

f. Implementing collection system, treatment plant and/or disposal system maintenance programs.

6. When additional emergency storage is determined to be necessary by the discharger, improvements shall be made to the offsite ponds to increase their storage capacity.

E. Full-Scale Effluent Spraying System

The discharger does not intend to operate a full-scale effluent spray irrigation system at this time. If the system is to be in operation, operations shall comply with the following requirements:

1. Before commencing operation of the effluent spray irrigation system, the Discharger shall install ground water monitoring wells and collect at least twelve months of monitoring data to characterize pre-project quality and water levels. The monitoring wells shall later be incorporated into the compliance monitoring program for the effluent spraying system.

2. At least 120 days prior to construction of the effluent spray irrigation system, the Discharger shall submit to Regional Board staff final plans, a program for initial start-up of the system and proposed modifications to the compliance monitoring program. The Executive Officer must approve these plans prior to construction of the system. The Monitoring program will be modified at that time.

3. Effluent shall not drift on to any access road.

4. Surface flow of effluent shall not migrate beyond the Discharger's property.

5. This office shall be notified at least 24 hours in advance of the beginning of each spraying season.

6. The effluent spraying system shall not result in a pollution or nuisance in either Martis Creek or the Truckee River.

F. Pretreatment of Industrial Wastewaters

1. The Discharger shall perform pretreatment functions, as described in 40 CFR Part 403, to include the following:

a. Implement the necessary legal authorities as provided for in 40 CFR 403.8 (f)(1).

b. Establish a waste hauler permit system that regulates waste haulers discharging to the TTSA treatment plant, to be approved by the Executive Officer.

c. Develop a local pretreatment program, according to 40 CFR 403.5, to include the following minimum requirements:

(1) Conduct an industrial waste survey to identify all industrial dischargers that might be subject to the pretreatment program.

(2) Determine the character and volume of pollutants contributed to the TTSA facility by these industries.

(3) Conduct a technical evaluation to determine the maximum allowance treatment plant headworks (influent) loading for at least cadmium, chromium, copper, lead, nickel, and zinc.

(4) Identify any additional pollutants of concern.

(5) Implement a system to assure these loadings will not be exceeded.

d. Perform ongoing industrial inspections and monitoring as necessary to ensure compliance with any applicable pretreatment regulations.

2. The Discharger shall submit annually a report to the Regional Board describing the Discharger's pretreatment activities over the previous twelve months. In the event that the Discharger is not in compliance with any conditions or requirements of this Board Order, then the Discharger shall also include the reasons for non-compliance and state how and when the Discharger shall comply with such conditions are requirements. This annual report is due on July 1 of each year and shall contain, but not be limited to, the attached Appendix "A" titled, "Requirements for Pretreatment Annual Report", which becomes a part of this Order.

G. Best Management Practices

1. Prior to any disturbance of existing soil conditions, the Discharger shall install temporary erosion control facilities to prevent transport of eroded earthen materials and other wastes off the property.

2. Vehicle use shall be prevented in unpaved areas not subject to construction.

3. There shall be no significant modification of existing drainage ways or existing stream channel geometry except for the purpose of stabilization or enhancement of water quality improvement effects. All modifications of the

bed, channel, or bank of a stream require a prior written agreement with the California Department of Fish and Game.

4. All soil disturbance activities shall cease and temporary erosion control measures immediately installed if adverse weather conditions threaten the transport of disturbed soils from the project site.

5. All disturbed areas shall be adequately restabilized or revegetated. Revegetated areas shall be continually maintained until vegetation becomes established.

6. Stormwater runoff collection, pretreatment, and/or infiltration disposal facilities shall be designed, installed, and maintained to preclude a discharge of stormwater runoff for at least a 20-year 1-hour design storm (approximately 0.75" of rainfall) from all impervious surfaces. If site conditions do not allow for adequate on-site disposal, all site runoff must be treated to meet Effluent Limitations and the Receiving Water Limitations.

7. Stormwater runoff in excess of the design storm shall only be discharged to a storm drain or stabilized drainage, and must meet the Effluent Limitations

8. Surface flows from the project site shall be controlled so as to not cause downstream erosion at any point.

9. Stormwater runoff handling and disposal facilities shall be cleaned and renovated annually.

10. All disturbed soils and surplus waste earthen materials shall be removed from the project site and deposited only at a legal point of disposal, or restabilized on-site in accordance with erosion control plans previously reviewed by the Executive Officer.

11. At no time shall waste earthen materials be placed in surface water drainage courses, or in such a manner as to allow the discharge of such matter to adjacent undisturbed land or to any surface water drainage course.

12. All loose piles of soil, silt, clay, sand, debris or other earthen material shall be protected in a reasonable manner to prevent any discharge to waters of the state.

13. Any dewatering of trenches shall be done in a manner so as to eliminate the discharge of soil, silt, clay, sand or other waste earthen materials from the site to nearby surface waters.

14. Any damage or break in existing water or sewer lines shall be repaired as soon as possible and measures must be implemented to prevent erosion or sedimentation into any drainage way.

15. Fresh concrete or grout shall not be allowed to contact or enter surface waters.

16. The Discharger shall immediately clean up and transport to a legal site any spilled petroleum products to the maximum extent practicable.

H. General Requirements and Prohibitions

1. There shall be no discharge, bypass or diversion of raw or partially treated sewage, sewage sludge, grease, or oils from the transport, storage, treatment or disposal facilities to adjacent land areas or surface waters.

2. The discharge of wastewater except to the designated disposal sites is prohibited.

3. All facilities used for transport, storage, treatment, or disposal of waste shall be adequately protected against overflow, washout or inundation from a storm or flood having a recurrence interval of once in 100 years.

4. All waste organic and chemical sludges shall only be discharged at a legal point of disposal.

5. Where any numeric or narrative water quality objective contained in the Basin Plan is already being violated, the discharge of waste which causes further degradation or pollution is prohibited.

6. The surfacing of wastewater effluent at the designated subsurface disposal site, or within a 50-foot wide zone surrounding the designated subsurface disposal site, is prohibited. This prohibition does not apply to the surfacing of wastewater effluent encountered outside the 50-foot wide zone surrounding the designated subsurface disposal site. This prohibition also does not apply to maintenance activities authorized by this Board Order that are located on the designated subsurface disposal site or within the 50-foot wide zone surrounding the designated subsurface disposal site. All other activities proposed within the designated subsurface disposal site or within the 50-foot wide zone surrounding the designated subsurface disposal site, which may encounter wastewater effluent, shall be submitted for review by Regional Board staff and approval by the Executive Officer.

7. Neither the treatment nor the discharge shall cause a pollution or nuisance as defined in Section 13050 of the California Water Code, or a threatened pollution.

III. PROVISIONS

A. Recission of Board Order No. 6-90-27

Board Order No. 6-90-27 and Board Order 6-90-27A1 are hereby rescinded.

B. Monitoring and Reporting

Pursuant to Section 13267(b) of the California Water Code, the Discharger shall comply with Monitoring and Reporting Program No. 2002-(TENTATIVE).

C. Standard Provisions

The Discharger must comply with the "Standard Provisions for Waste Discharge Requirements", included in Attachment "B", which is made part of this order.

D. Right to Revise Waste Discharge Requirements

In accordance with Section 13263(e) of the California Water Code, the Regional Board reserves the right to review and revise all or any portion of these waste discharge requirements. Such action may be initiated on the Regional Board's own motion or in response to an application by any person affected by the discharge, for good cause, including the possibility that land uses in the area may change.

E. Wastewater Treatment Plant Operator Certificate

The Discharger's wastewater treatment plant shall be supervised by persons possessing a wastewater treatment plant operator certificate of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23, California Code of Regulations.

F. Addition of Biological Nitrogen Removal

TTSA shall initiate construction of full Biological Nitrogen Removal (BNR) for the existing rated capacity of 7.4 mgd by June 15, 2004, if the plant expansion is delayed or abandoned; provided that a total grant of $11.6 million has been committed and made available to TTSA by the State of California for this purpose. The BNR process shall be designed for maximum practicable nitrogen reduction, independent of additional removals that can be achieved in the soil aquifer treatment (SAT) system. Operational measures shall be employed to maximize the overall performance of the BNR and SAT systems in concert with one another, to minimize nitrogen discharged to the Truckee River.

G. Martis Creek Watershed Phosphorus Study

Prior to **January 1, 2003**, the Discharger shall submit a workplan for a study to identify existing and future sources of phosphorus within the Martis Creek watershed, potential control measures that could be implemented, and a monitoring plan to

evaluate the effect of such control measures upon Martis Creek throughout its watershed. The workplan shall describe the study and include a time schedule for its completion by **June 30, 2004**. Though the study will involve and require the participation of other public agencies and private entities, the Discharger shall provide funding for and ensure the completion of the study.

H. Sewage Overflow Preventative Maintenance and Spill Response Programs

Member entities of the TTSA in the Lake Tahoe Basin shall develop sewage overflow preventative maintenance and spill response programs as specified in their waste discharge requirements. The TTSA shall maintain and update as necessary a sewage overflow preventative maintenance and spill response program for interceptor sewerlines which it maintains. The program for the interceptor shall be updated, and resubmitted to the Board for review and approval, at least once every three years, with the next report due no later than January 1, 2003.

I. Toxic Effluent Standards and Prohibitions

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Water Pollution Control Act or amendments thereto, for toxic pollutants contained in wastewater, the Board may revise or modify this Order in accordance with such toxic pollutant guidelines and so notify the discharger.

J. Required Connection to Sewer System in Lake Tahoe Basin

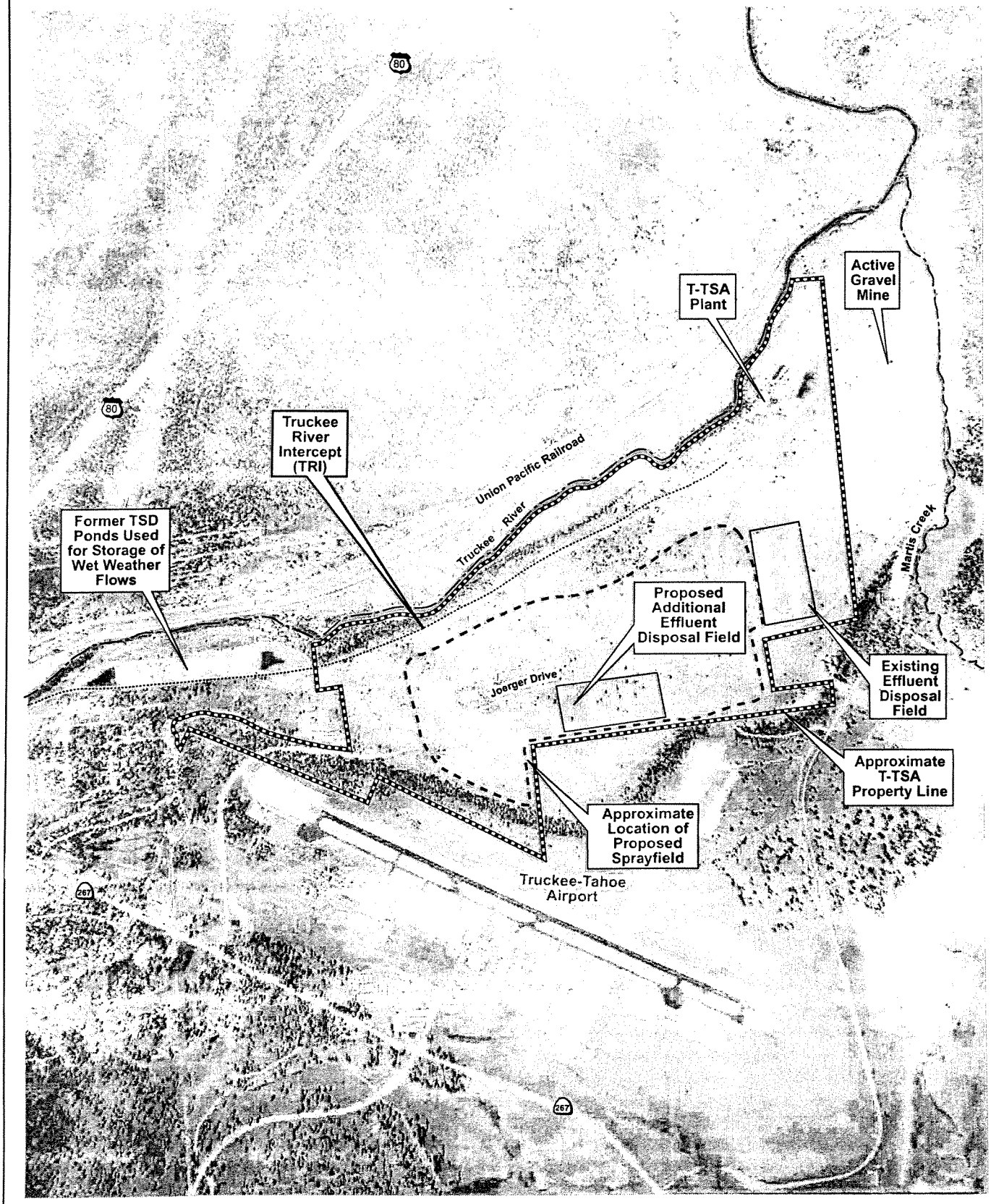
Member entities of the TTSA in the Lake Tahoe Basin shall continue to require the connection to the sewer system of any building from which waste is discharged, in accordance with Section 13950 of the California Water Code and as specified in their respective waste discharge requirements.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on May 9, 2002.

HAROLD J. SINGER
EXECUTIVE OFFICER

Attachment: A. Location Map
B. Standard Provisions for Waste Discharge Requirements

TJP/cgT: TTSA2002.WDR



Attachment A
Location of Existing and Proposed Facilities

Tahoe-Truckee Sanitation Agency
Martis Valley Wastewater Treatment Plant

CH2MHILL

ATTACHMENT "B"

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

STANDARD PROVISIONS
FOR WASTE DISCHARGE REQUIREMENTS

1. Inspection and Entry

The discharger shall permit Regional Board staff:

a. to enter upon premises in which an effluent source is located or in which any required records are kept;

b. to copy any records relating to the discharge or relating to compliance with the waste discharge requirements;

c. to inspect monitoring equipment or records; and

d. to sample any discharge.

2. Reporting Requirements

a. Pursuant to California Water Code 13267(b), the discharger shall immediately notify the Regional Board by telephone whenever an adverse condition occurred as a result of this discharge; written confirmation shall follow within two weeks. An adverse condition includes, but is not limited to, spills of petroleum products or toxic chemicals, or damage to control facilities that could affect compliance.

b. Pursuant to California Water Code Section 13260 (c), any proposed material change in the character of the waste, manner or method of treatment or disposal, increase of discharge, or location of discharge, shall be reported to the Regional Board at least 120 days in advance of implementation of any such proposal. This shall include, but not be limited to, all significant soil disturbances.

c. The owner(s) of, and discharger upon, property subject to waste discharge requirements shall be considered to have a continuing responsibility for ensuring compliance with applicable waste discharge requirements in the operations or use of the owned property. Pursuant to California Water Code Section 13260(c), any change in the ownership and/or operation of property subject to the waste discharge requirements shall be reported to the Regional Board. Notification of applicable waste discharge requirements shall be furnished in writing to the new owners and/or operators and a copy of such notification shall be sent to the Regional Board.

d. If a discharger becomes aware that any information submitted to the Regional Board is incorrect, the discharger shall immediately notify the Regional Board, in writing, and correct that information.

e. Reports required by the waste discharge requirements, and other information requested by the Regional Board, must be signed by a duly authorized representative of the discharger. Under Section 13268 of the California Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars ($1000) for each day of violation.

f. If the discharger becomes aware that their waste discharge requirements are no longer needed (because the project will not be built or the discharge will cease) the discharger shall notify the Regional Board in writing and request that their waste discharge requirements be rescinded.

3. Right to Revise Waste Discharge Requirements

The Board reserves the privilege of changing all or any portion of the waste discharge requirements upon legal notice to and after opportunity to be heard is given to all concerned parties.

4. Duty to Comply

Failure to comply with the waste discharge requirements may constitute a violation of the California Water Code and is grounds for enforcement action or for permit termination, revocation and reissuance, or modification.

5. Duty to Mitigate

The discharger shall take all reasonable steps to minimize or prevent any discharge in violation of the waste discharge requirements which has a reasonable likelihood of adversely affecting human health or the environment.

6. Proper Operation and Maintenance

The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with the waste discharge requirements. Proper operation and maintenance includes adequate laboratory control, where appropriate, and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by the discharger, when necessary to achieve compliance with the conditions of the waste discharge requirements.

7. Waste Discharge Requirement Actions

The waste discharge requirements may be modified, revoked and reissued, or terminated for cause. The filing of a request by the discharger for waste discharge requirement

modification, revocation and reissuance, termination, or a notification of planned changes or anticipated noncompliance, does not stay any of the waste discharge requirements conditions.

8. Property Rights

The waste discharge requirements do not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

9. Enforcement

The California Water Code provides for civil liability and criminal penalties for violations or threatened violations of the waste discharge requirements including imposition of civil liability or referral to the Attorney General.

10. Availability

A copy of the waste discharge requirements shall kept and maintained by the discharger and be available at all times to operating personnel.

11. Severability

Provisions of the waste discharge requirements are severable. If any provision of the requirements is found invalid, the remainder of the requirements shall not be affected.

12. Public Access

General public access shall be effectively excluded from treatment and disposal facilities.

13. Transfers

Providing there is no material change in the operation of the facility, this Order may be transferred to a new owner or operation. The owner/operator must request the transfer in writing and receive written approval from the Regional Board Executive Officer.

14. Definitions

a. "Surface waters" as used in this Order, include, but are not limited to, live streams, either perennial or ephemeral, which flow in natural or artificial water courses and natural lakes and artificial impoundments of waters. "Surface waters" does not include artificial water courses or impoundments used exclusively for wastewater disposal.

b. "Ground waters" as used in this Order, include, but are not limited to, all subsurface waters being above atmospheric pressure and the capillary fringe of these waters.

15. Storm Protection

All facilities used for collection, transport, treatment, storage, or disposal of waste shall be adequately protected against overflow, washout, inundation, structural damage or a significant reduction in efficiency resulting from a storm or flood having a recurrence interval of once in 100 years.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

MONITORING AND REPORTING PROGRAM NO. 2002-0030
FOR

TAHOE-TRUCKEE SANITATION AGENCY
MARTIS VALLEY WASTEWATER TREATMENT PLANT AND
ASSOCIATED MAINTENANCE PROJECTS

Nevada County

This monitoring and reporting program includes five areas of monitoring:

1. Water rights monitoring
2. Collection system flow monitoring
3. Plant influent and effluent monitoring
4. Receiving waters monitoring; both ground and surface waters
5. Maintenance projects monitoring.

This program shall take effect immediately.

WATER RIGHTS MONITORING

MONITORING

The Tahoe-Truckee Sanitation Agency (TTSA) shall provide annual reports on the total monthly water use within the water service district boundaries of member entities in the Lake Tahoe Basin for the prior calendar year. These reports shall include the following information on a monthly basis:

1. Total water diversion for use (MG)
2. Number and Type of water users served by each water system or subsystem
3. Unit water use rates (gpd)

These reports shall include all water use within the member entities water service areas, for purposes of municipal use, domestic use, agricultural use, irrigation use, and industrial use, excepting use on federal and state owned lands. The data provided in these reports shall be based on direct measurements to the greatest extent practicable, but may rely upon estimating techniques such as those employed in the State Water Resources Control Board's "Report on Water Use and Water Rights, Lake Tahoe Basin" or other similar methods.

REPORTING

The Discharger shall submit annual monitoring reports not later than June 15th for the previous calendar year. The first such report shall be due not later than June 15, 2002. In reporting the data, the Discharger shall arrange the data such that the diversion, period of diversion, amounts, numbers of users, and rate of use are readily discernible.

FLOW MONITORING WITHIN COLLECTION SYSTEM

FLOW MEASUREMENT

Flow monitoring of member districts shall be initiated immediately upon connection of each district to regional system. Flow meters capable of accurately measuring flow shall be installed at all points where an individual district discharges to the regional interceptor.

Flow shall be monitored for:

1. Total daily flow (MG)
2. Daily peak flow rate (MGD)

The Truckee River Canyon is exempt for individual flow monitoring requirements.

CALIBRATION

Each meter shall be calibrated semi-annually under the supervision of a registered civil engineer and the report of the calibration shall be prepared by him/her and submitted within 15 days after calibration.

REPORTING

The Discharger shall submit monthly monitoring reports no later than the 15th day following each monthly monitoring period. The Discharger shall: (1) compute a running seven-day average flow, (2) identify the maximum daily flow and its date, and (3) identify the peak flow rate and its date. In reporting the data, the Discharger shall arrange the data such that the subject district, date, and flow are readily discernible.

TREATMENT PLANT MONITORING

Treatment plant monitoring will consist of measurement of influent flow and composition and detailed analyses of effluent quality.

FLOW MONITORING

A flow meter capable of accurately measuring influent shall be installed downstream of all significant wastewater contributors and above the first unit operation of the treatment plant. The calibration requirements noted in "Collection System Flow Monitoring" above shall apply to this meter also.. Additional accurate flow meters shall be installed as appropriate to enable flow measurement within the treatment plant. The following flows shall be monitored:

1. Total daily influent flow (MG)
2. Peak daily influent flow rate (MGD)
3. Total daily flow of effluent to disposal site (MG)
4. Total daily flow to emergency retention basin (MG)

5. Total daily flow from emergency retention basin to the treatment works (MG)
6. Total daily flow (MG) to and from the emergency storage facilities.

INFLUENT MONITORING

Influent samples shall be collected at the headworks of the plant prior to any treatment process. The following shall constitute the program for monitoring of influent water quality:

Parameter	Units	Sample Type	Frequency
Influent COD	mg/l	24-hour composite	2/week[1/]
Influent Total Suspended Solids	mg/l	24-hour composite	2/week[1/]
Influent BOD_5	mg/l	24-hour composite	Weekly[2/]
Influent Total Nitrogen	mg/l	24-hour composite	Weekly[2/]
Influent Total Phosphorus	mg/l	24-hour composite	Weekly

EFFLUENT MONITORING

Effluent samples shall be collected at the effluent sampler on the effluent line. The following shall constitute the program for monitoring of effluent water quality:

Parameter	Units	Sample Type	Frequency
Turbidity	NTU (range of values)	Continuous [2,3/]	---
pH	pH Units	Continuous [4/]	---
Chlorine Residual	mg/l (range of values)	Continuous [4/]	---
Temperature	°C	Grab	Daily
Turbidity	NTU	24-hour composite	Daily
Dissolved Oxygen	mg/l	Grab	Daily
Total Coliform Organisms	MPN/100 ml or MPC/100 ml	Grab	Daily
COD	mg/l	24-hour composite	2/week
Total Organic Carbon	mg/l	24-hour composite	2/week
Total Phosphorus	mg/l-P	24-hour composite	2/week
Nitrate	mg/l	24-hour composite	3/week
Total Kjeldahl-N	mg/l-N	24-hour composite	3/week
Total Suspended Solids	mg/l	24-hour composite	Weekly
Alkalinity	mg/l $CaCO_3$	Grab [3/]	Weekly
Chlorine Residual	mg/l	Grab	Weekly
Chloride	mg/l	24-hour composite	Weekly
Trihalomethanes	mg/l	24-hour composite	Quarterly
Phenols	mg/l	24-hour composite	Quarterly
Sulfate	mg/l	24-hour composite	Quarterly
Total Dissolved Solids	mg/l	24-hour composite	Quarterly
Sodium	mg/l	24-hour composite	Quarterly
Calcium	mg/l	24-hour composite	Quarterly
Iron	mg/l	24-hour composite	Quarterly

Arsenic	mg/l	24-hour composite	Annually
Barium	mg/l	24-hour composite	Annually
Boron	mg/l	24-hour composite	Annually
Cadmium	mg/l	24-hour composite	Annually
Hexavalent Chromium	mg/l	24-hour composite	Annually
Lead	mg/l	24-hour composite	Annually
Selenium	mg/l	24-hour composite	Annually
Silver	mg/l	24-hour composite	Annually
Copper	mg/l	24-hour composite	Annually
Manganese	mg/l	24-hour composite	Annually
Zinc	mg/l	24-hour composite	Annually
Nickel	mg/l	24-hour composite	Annually
Strontium	mg/l	24-hour composite	Annually
Magnesium	mg/l	24-hour composite	Annually

[1/] Every Sunday and Wednesday
[2/] Alternating Sunday and Wednesday
[3/] May be taken at overlow from second stage recarbonation basin
[4/] Use of continuous recording probe is essential
[5/] Sample may be taken prior to chlorination

MASS LOADS

The Discharger shall calculate for each calendar year total annual mass loads for the following constituents discharged from the treatment plant:

1. Total Dissolved Solids
2. Chloride
3. Total Phosphorus (as P)
4. Total Nitrogen (as N)
5. Total Nitrogen (as N), mass load for period May 1 through October 31

REPORTING

The Discharger shall submit monthly monitoring reports not later than the 15th day of the following month. Each report shall contain the results of appropriate daily, weekly, quarterly, or annual sampling as noted above. Turbidity and pH shall be reported in terms of a daily range of values. The Discharger shall compute and report the 30-day monthly mean and the monthly maximum value for those parameters listed in Section II.A.2 of Board Order No. R6T-2002-(PROPOSED). In reporting the data, the Discharger shall arrange the parameter name, units, date, measured value and computed value so as to be readily discernible and clearly illustrate compliance.

RECEIVING WATER MONITORING

SURFACE WATERS

Station Code[7/]	Description[8/]
T-1	Near Polaris; N614, 240, E2, 527, 680

T-2	Just above old Highway 40 bridge; N619, 620, E2, 531, 800
T-3	Just above California-Nevada State Line
M-1	Below dam and above influence of TTSA discharge
M-2	Just above confluence with Truckee River, N16, 360, E2, 535, 280

[7/] T=Truckee River Station, M= Martis Creek Station
[8/] Coordinates based on California Grid

All samples shall be grab samples and shall be taken in accordance with the following schedule for Martis Creek and the Truckee River:

Parameter	Units	Station	Frequency
Temperature	°C	All Stations	2/month
Nitrate	mg/l as N	All Stations	2/month
Total Kjeldahl-N	mg/l as N	All Stations	Monthly
Total Phosphorus	mg/l as P	All Stations	Monthly
Ortho-phosphate	mg/l as P	All Stations	Monthly
Total Coliforms	MPN/100ml or MPC/100ml	All Stations	Monthly [9/]
Fecal Coliforms	MPN/100ml or MPC/100ml	All Stations	Monthly
Total Iron	mg/l	All Stations	Monthly
Dissolved Oxygen	mg/l	All Stations	Monthly
Alkalinity	mg/l $CaCO_3$	All Stations	Monthly
pH	pH units	All Stations	Monthly
Dissolved Organic Carbon	mg/l	All Stations	Monthly
Chloride	mg/l	All Stations	Monthly
Total Dissolved Solids		All Stations	Monthly
Un-Ionized Ammonia	mg/l as N	All Stations	Quarterly
Trihalomethanes	mg/l	T-2, T-3, M-2	Quarterly
Periphyton	gr.dry wt./m^2 and gr. Ash free dry wt./m^2	All Stations	2/month (May-Oct)
Periphyton	percent composition[10/]	All Stations	2/month (May-Oct)
Benthic Invertebrates[11/]	numbers	All Stations	Monthly (June-Oct)

[9/] 2/week during any period when emergency storage facilities contain sewage
[10/] Relative percentages (from cell counts) of algae in major groups [Chlorophyta, Chrysophyta
(separate diatoms from other Chrysophyta), Cyanophyta]
[11/] Invertebrates to be identified to phylam level (insects to order level). Number of individuals/m^2 in each group to be reported. Insect diversity to be computed based on numbers of individuals in each order.

GROUND WATERS

FINAL MONITORING AT WELL MG-5-TO

Samples of ground water containing treated effluent shall be collected at monitoring well MG-5-TO (Well 31). The following shall constitute the program for monitoring of ground water containing treated effluent at Well MG-5-TO:

Parameter	Units	Sample Type	Frequency
Static Water Level	feet MSL	---	Weekly
COD	mg/l	grab	Weekly
Total Organic Carbon	mg/l	grab	Weekly
Nitrate Nitrogen	mg/l as N	grab	Weekly
Total Kjeldahl-N	mg/l as N	grab	Weekly
Un-ionized Ammonia	mg/l as N	grab	Weekly
Total Phosphorus	mg/l as P	grab	Weekly
Total Fecal Coliform	MPN/100 ml	grab	Weekly
Chlorine Residual	mg/l	grab	Weekly
Chloride	mg/l	grab	Weekly
pH	pH units	grab	Weekly
Alkalinity	mg/l as $CaCO_3$	grab	Weekly
Temperature	o C	grab	Weekly
Total Dissolved Solids	mg/l	grab	Weekly
Trihalomethanes	mg/l	grab	Quarterly
Purgeable Halocarbons [14/]	ug/l	grab	Annually
Purgeable Aromatics [15/]	ug/l	grab	Annually

ADDITIONAL GROUND WATER MONITORING

The following additional ground water monitoring sampling stations are to be maintained:

Station Code[12/]	Location [13/]
MG-1-TO	East edge of disposal area 17N/17E-7R1M (Well 20)
MG-1-TF	East edge of disposal area 17N/17E-7R1M (Well 1)
MG-2-TO	Martis Valley near Martis Creek, 17N/17E-7J1M (Toups Well)
MG-2-TF	Martis Valley near Martis Creek, 17N/17E-7J1M (Well 23)
MG-4-TO	Martis Valley near Martis Creek, 17N/17E-8F1 (Well 36)
MG-5-TO	Martis Valley near Truckee River, 17N/17ESN1 (Well 31)
MG-6-TO	Martis Valley near Truckee River, 17N/17E (Well 25)
MG-6-TF	Martis Valley near Truckee River, 17N/17E (Well 26)
MG-7-TO	Martis Valley near Martis Creek, 17N/17E (Well34)
Upgradient	A specific upgradient well site (Well 24)

[12/]MG=Martis Valley ground water body; TO= Tahoe Outwash; TF=Truckee Formation
[13/]Well Location System, U.S. Geological Survey

For those monitoring wells with suffix "TO", the casing shall only extend to a depth at which the top of the Truckee Formation is encountered and shall be perforated to within 20 feet of the ground surface.

For those monitoring wells with the suffix "TF", the casing shall extend to at least 20 feet below the first clay layer encountered below the Tahoe Outwash and shall be sealed above this depth and perforated below. Exact casing and perforation depths shall be determined in the field by a registered civil engineer or a certified engineering geologist. Well construction shall conform to applicable ordinances of the County of Nevada and *Water Well Standards for the State of California* (DWR Bulletin No. 74).

Sampling of the wells shall be conducted by drawing the appropriate sample volume from the upper 3 feet of ground water encountered in each well.

All samples shall be grab samples and shall be drawn according to the following schedules:

Sampling of Stations MG-1-TO, MG-2-TO, MG-4-TO, MG-6-TO AND MG-7-TO

Parameter	Units	Frequency
Static Water Level	feet MSL	Monthly
Nitrate Nitrogen	mg/l as N	Monthly
Total Kjeldahl Nitrogen	mg/l as N	Monthly
Total Phosphorus	mg/l as P	Monthly
Total Organic Carbon	mg/l	Monthly
pH	pH units	Monthly
Temperature	°C	Monthly
Chloride	mg/l	Monthly
Total Dissolved Solids	mg/l	Monthly
Alkalinity	mg/l as $CaCO_3$	Quarterly
Trihalomethanes	mg/l	Quarterly
Un-Ionized Ammonia	mg/l as N	Quarterly
Total Fecal Coliforms	MPN/100ml or MFC/100ml	Semi-annually (Sta. MG-1-TO and MG-2-TO)
Purgeable Halocarbons[14/]	ug/l	Annually
Purgeable Aromatics[15/]	ug/l	Annually

[14/]EPA method 601 for samples from wells MG-1-TO, MG-2-TO and the designated upgradient well
[15/]EPA method 602 plus xylene for samples from wells MG-1-TP, MT-2-TO and the designated upgradient well

MG-1-TO, MG-2-TO

Sampling of Stations MG-1-TF, MG-2-TF and MG-6-TF

Parameter	Units	Frequency
Static Water Level	feet MSL	Monthly
Nitrate	mg/l as N	Semi-annually
Total Organic Carbon	mg/l	Semi-annually
PpH	pH units	Semi-annually

Temperature	°C	Semi-annually
Chloride	mg/l	Semi-annually
Total Dissolved Solids	mg/l	Semi-annually
Trihalomethanes	mg/l	Semi-annually
Total Fecal Coliform	MPN/100ml or MFC/100ml	Semi-annually

REPORTING

Monthly monitoring reports shall be submitted by the Discharger not later than the 15th day of the following month. In reporting the data, the Discharger shall arrange the data such that the station code, date, measured value, and applicable standard are clearly discernible.

MAINTENANCE PROJECTS

POST-CONSTRUCTION PHASE

An inspection of all maintenance project sites shall be made by the Discharger twice each year, about every six months when not covered by snow. The purpose of these inspections is to discover potential erosion and surface runoff problems on project sites so that corrective measures may be immediately undertaken.

Any erosion or surface runoff problems found as a result of these inspections shall be clearly described and the corrective measures proposed by the Discharger shall be included in the monitoring report. In the event that no such problems are found on the subject property, a statement certifying this condition must be included for each semiannual inspection.

GENERAL

1. The Discharger shall comply with "General Provisions for Monitoring and Reporting", dated September 1, 1994, which is attached to and made a part of this Monitoring and Reporting Program.

2. All analyses shall be performed in accordance with the lastest edition of *Standard Methods for the Examination of Water and Wastewater* or the *Manual of Methods for Chemical Analysis for Water and Waste* unless otherwise noted, in a laboratory certified to perform such analyses by the California Department of Health, or approved by the Executive Officer.

3. In monthly monitoring reports, the Discharger shall note and explain any unusual occurrence such as failure to any treatment unit or non-compliance with any waste discharge requirement, effluent limitations or receiving water limitation.

4. The February monitoring report of each year shall include trend analyses for the previous calendar year and a comparison of annual means (mean of monthly means) with annual means from previous years to extend back to pre –discharge. Trend analyses will be provided for all surface water parameters at all surface water stations. The trend analyses for

ground waters will be performed for all ground water parameters at wells MG-2, MG-4 and 5-TO. The trend analysis shall include an assessment of any changes to ground water flow direction and gradients, and a discussion of seasonal, spatial and temporal trends if any. If appropriate to make the information understandable, this report shall include summary data tables, graphs, maps of constituent levels and appended analytical reports. The report shall identify any violation of permit limitations shown by this data. Additionally, trend analysis shall be provided to reflect the changes in monthly and annual mean flows through the plant and from each member entity.

5. All monitoring reports will be reviewed and signed by a registered civil engineer who is routinely responsible for conducting this Monitoring and Reporting Program.

6. A detailed QA/QC program shall be established to include, but not be limited to, duplicate analysis, split sample analysis by an alternative laboratory and an analysis of spike samples. Details and results of the QA/QC program shall be reported annually with the first report due by July 1, 2002.

Ordered by: Harold J. Singer Dated May 8, 2002

HAROLD J. SINGER
EXECUTIVE OFFICER

Attachments: A. General Provisions for Monitoring and Reporting
B. Map of Monitoring Locations

TJP/cgT: TTSA2002PROP.MRP

ATTACHMENT "A"
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

GENERAL PROVISIONS
FOR MONITORING AND REPORTING

1. SAMPLING AND ANALYSIS

a. All analyses shall be performed in accordance with the current edition(s) of the following documents:

i. Standard Methods for the Examination of Water and Wastewater

ii. Methods for Chemical Analysis of Water and Wastes, EPA

b. All analyses shall be performed in a laboratory certified to perform such analyses by the California State Department of Health Services or a laboratory approved by the Regional Board Executive Officer. Specific methods of analysis must be identified on each laboratory report.

c. Any modifications to the above methods to eliminate known interferences shall be reported with the sample results. The methods used shall also be reported. If methods other than EPA-approved methods or Standard Methods are used, the exact methodology must be submitted for review and must be approved by the Regional Board Executive Officer prior to use.

d. The discharger shall establish chain-of-custody procedures to insure that specific individuals are responsible for sample integrity from commencement of sample collection through delivery to an approved laboratory. Sample collection, storage, and analysis shall be conducted in accordance with an approved Sampling and Analysis Plan (SAP). The most recent version of the approved SAP shall be kept at the facility.

e. The discharger shall calibrate and perform maintenance procedures on all monitoring instruments and equipment to ensure accuracy of measurements, or shall insure that both activities will be conducted. The calibration of any wastewater flow measuring device shall be recorded and maintained in the permanent log book described in 2.b, below.

f. A grab sample is defined as an individual sample collected in fewer than 15 minutes.

g. A composite sample is defined as a combination of no fewer than eight individual samples obtained over the specified sampling period at equal intervals. The volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling. The sampling period shall equal the discharge period, or 24 hours, whichever period is shorter.

2. OPERATIONAL REQUIREMENTS

a. Sample Results

Pursuant to California Water Code Section 13267(b), the discharger shall maintain all sampling and analytical results including: strip charts; date, exact place, and time of sampling; date analyses were performed; sample collector's name; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

b. Operational Log

Pursuant to California Water Code Section 13267(b), an operation and maintenance log shall be maintained at the facility. All monitoring and reporting data shall be recorded in a permanent log book.

3. REPORTING

a. For every item where the requirements are not met, the discharger shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time, and shall submit a timetable for correction.

b. Pursuant to California Water Code Section 13267(b), all sampling and analytical results shall be made available to the Regional Board upon request. Results shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge, or when requested by the Regional Board.

c. The discharger shall provide a brief summary of any operational problems and maintenance activities to the Board with each monitoring report. Any modifications or additions to, or any major maintenance conducted on, or any major problems occurring to the wastewater conveyance system, treatment facilities, or disposal facilities shall be included in this summary.

d. Monitoring reports shall be signed by:

i. In the case of a corporation, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates;

ii. In the case of a partnership, by a general partner;

iii. In the case of a sole proprietorship,by the proprietor; or

iv. In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

e. Monitoring reports are to include the following:

i. Name and telephone number of individual who can answer questions about the report.

ii. The Monitoring and Reporting Program Number.

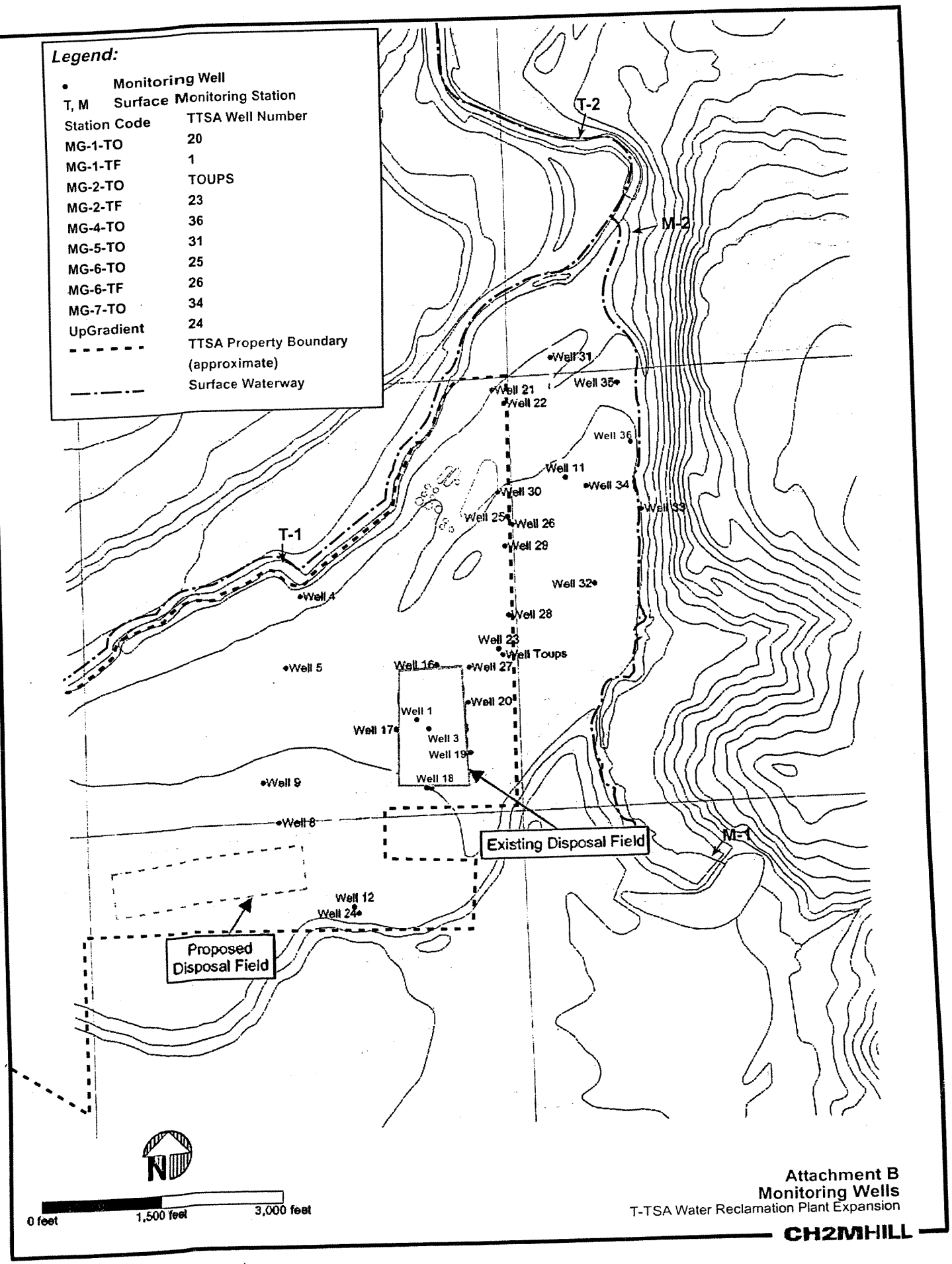
iii. WDID Number 6A265300900.

f. Modifications

This Monitoring and Reporting Program may be modified at the discretion of the Regional Board Executive Officer.

4. NONCOMPLIANCE

Under Section 13268 of the Water Code, any person failing or refusing to furnish technical or monitoring reports, or falsifying any information provided therein, is guilty of a misdemeanor and may be liable civilly in an amount of up to one thousand dollars ($1,000) for each day of violation.



Attachment B
Monitoring Wells
T-TSA Water Reclamation Plant Expansion

CH2MHILL

TTSA W122000001SAC

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: VI-1
Subject: Department Reports.

Background
Department reports for previous and current month(s).

Fiscal Impact
None.

Attachments
1. Operations Department Report.
2. Maintenance Department Report.
3. Engineering Department Report.
4. Administrative Department Report.

Recommendation
No action required.

Review Tracking

Submitted By: _____
Richard Pallante
General Manager

TAHOE-TRUCKEE SANITATION AGENCY
OPERATIONS DEPARTMENT REPORT

Date: October 18, 2023

To: Board of Directors

From: Michael Peak, Operations Manager

Subject: Operations Department Report.

Compliance:

- All plant waste discharge requirements were met for the month.

Operations:

- The plant performed well throughout the month.
- Drained and cleaned chem and recarb clarifiers side one to facilitate clarifier repairs.
- Continue to monitor and evaluate Sodium Hypochlorite pilot project for effluent disinfection.
- Began preparation for digester cleaning.

Operations Work Orders:

- Completed this month: 1
- Pending: 1

Laboratory:

- Staff performed necessary laboratory testing.
- Lab staff in the process of implementing quality systems improvements.
- Corrective actions submitted to assessor September 27th. Lab waiting for response.

Laboratory Corrective Actions:

- Completed this month: 23
- Pending: 1

Plant Data:

Influent Flow Description	MG
Monthly average daily (1)	3.05
Monthly maximum instantaneous (1)	5.72
Maximum 7- day average	3.51

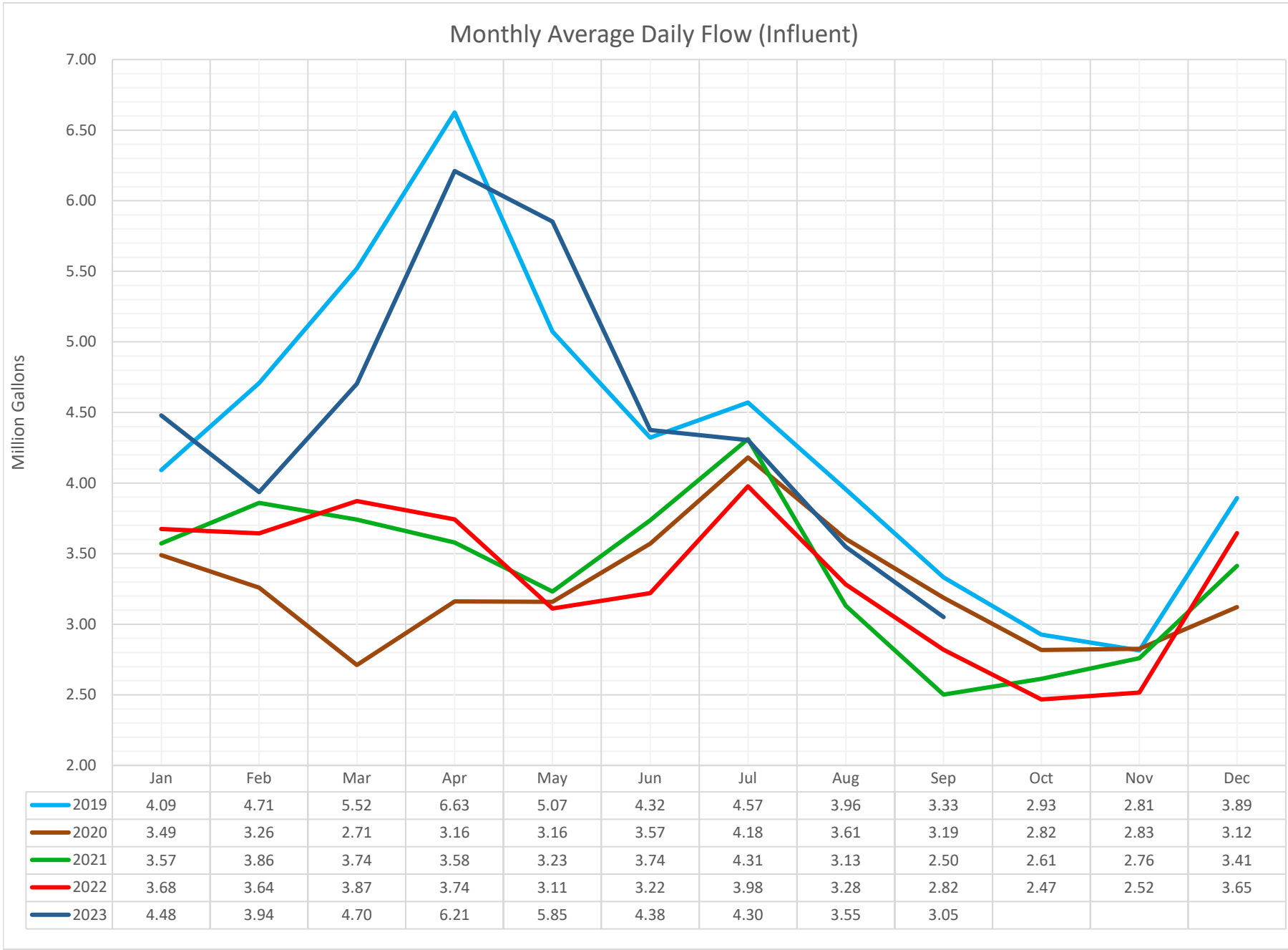
Effluent Limitation Description (2)	*WDR Monthly Average*		*WDR Daily Maximum*	
	Recorded	*Limit*	*Recorded*	*Limit*
Suspended Solids (mg/l)	*1.3*	*10.0*	*1.3*	*20.0*
Turbidity (NTU)	*NA*	*NA*	*1.7*	*10.0*
Total Phosphorus (mg/l)	*0.32*	*0.80*	*0.48*	*1.50*
Chemical Oxygen Demand (mg/l)	*39*	*45*	*43*	*60*

Notes:
1. Flows are depicted in the attached graph.
2. Effluent table data per WDR reportable frequency. Attached graphs depict all recorded data.

Review Tracking:

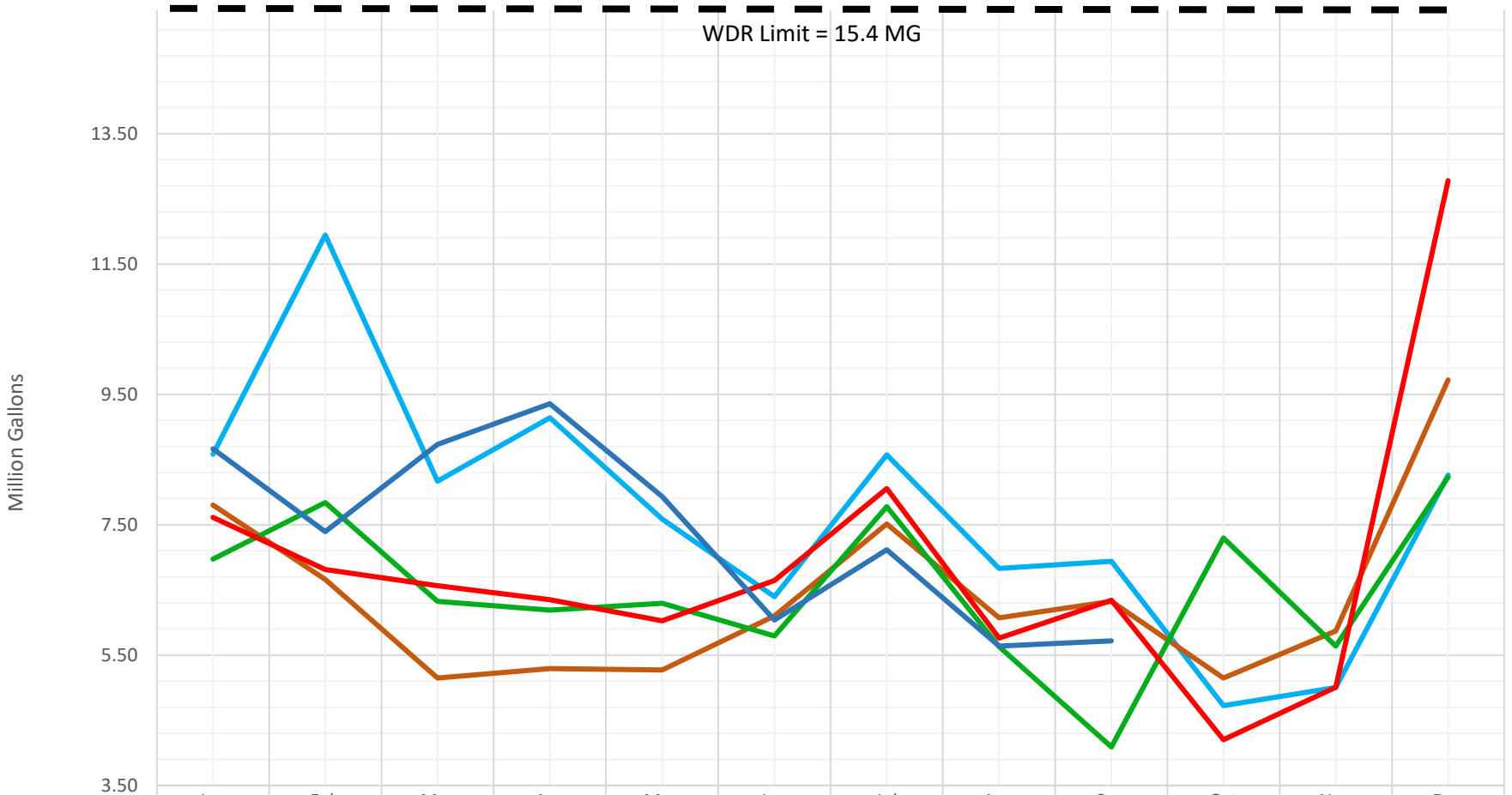
Submitted By: _____
Michael Peak
Operations Manager

Approved By: _____
Richard Pallante
General Manager

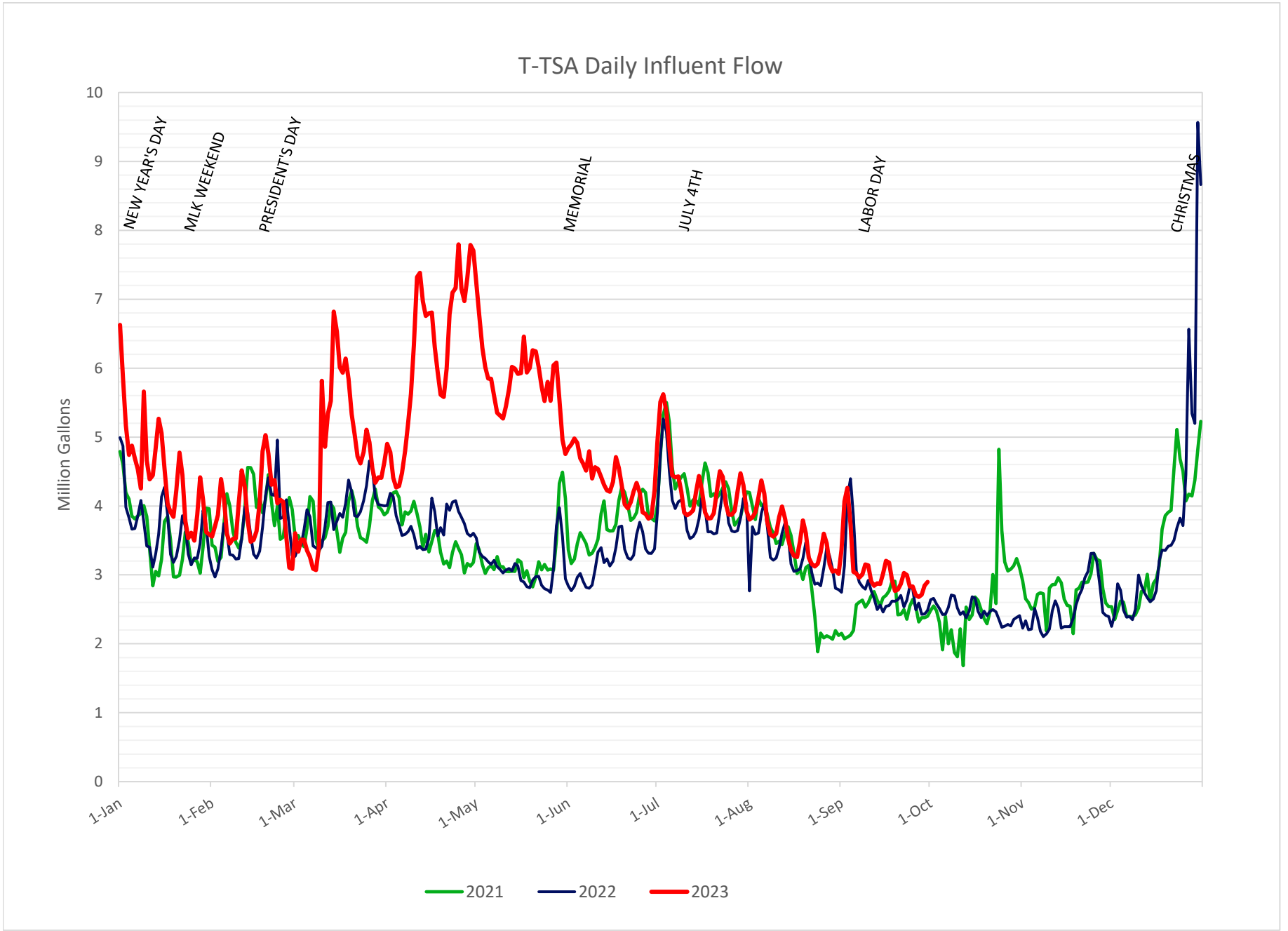


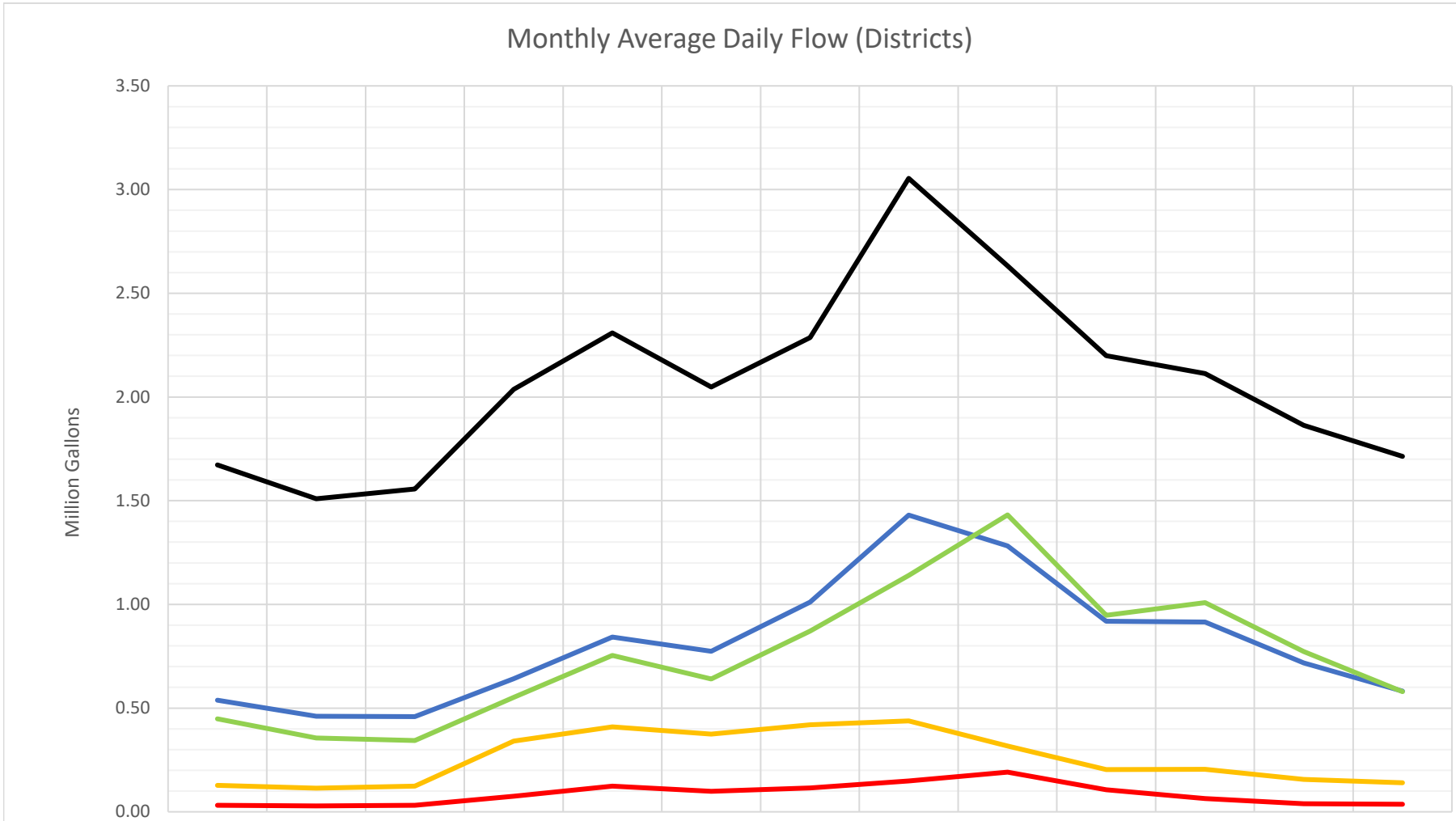
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	4.09	4.71	5.52	6.63	5.07	4.32	4.57	3.96	3.33	2.93	2.81	3.89
2020	3.49	3.26	2.71	3.16	3.16	3.57	4.18	3.61	3.19	2.82	2.83	3.12
2021	3.57	3.86	3.74	3.58	3.23	3.74	4.31	3.13	2.50	2.61	2.76	3.41
2022	3.68	3.64	3.87	3.74	3.11	3.22	3.98	3.28	2.82	2.47	2.52	3.65
2023	4.48	3.94	4.70	6.21	5.85	4.38	4.30	3.55	3.05			

Monthly Maximum Instantaneous Flow (Influent)



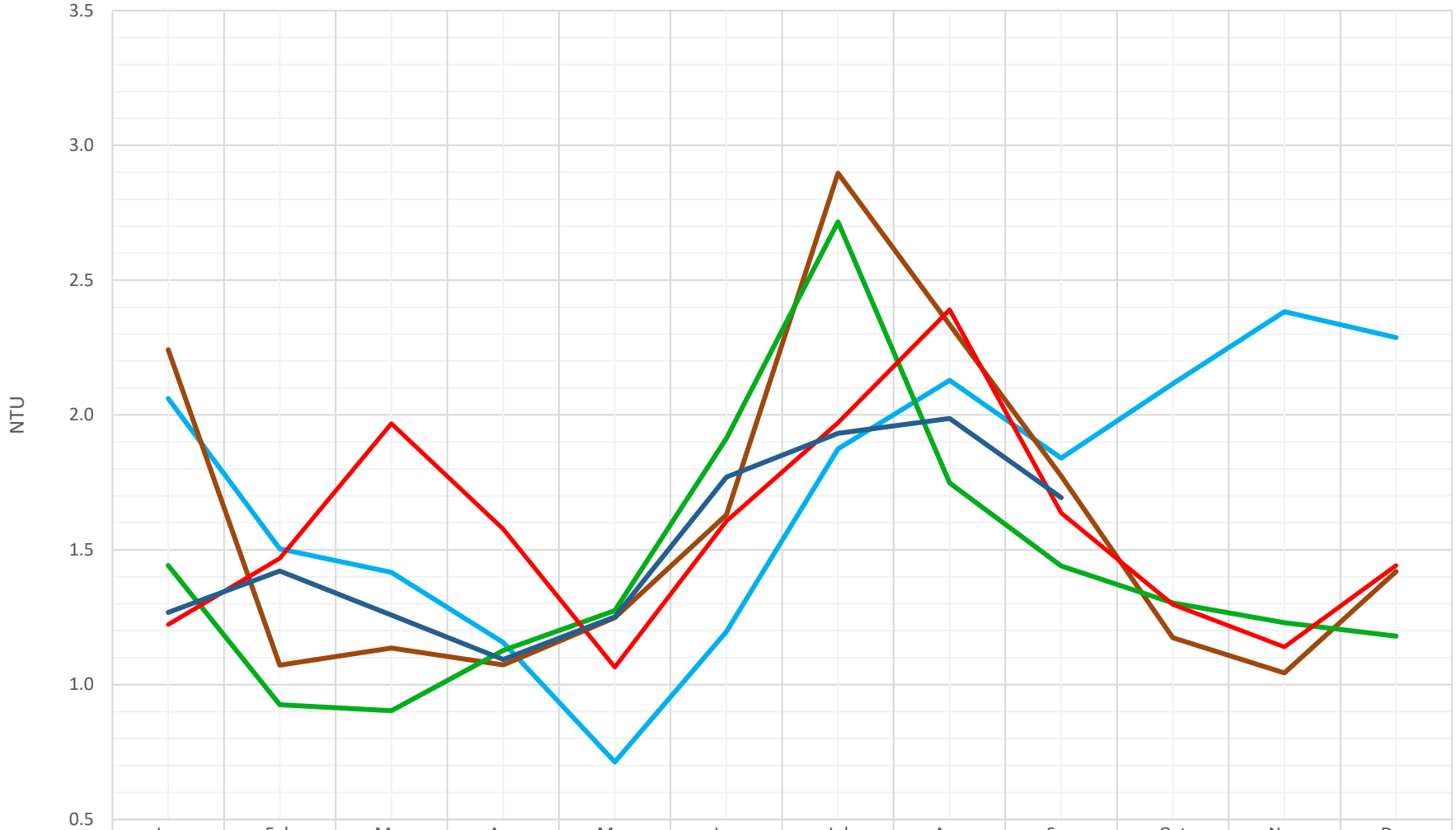
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	8.58	11.95	8.17	9.14	7.59	6.40	8.57	6.83	6.94	4.73	5.00	8.26
2020	7.81	6.66	5.15	5.29	5.27	6.10	7.51	6.07	6.33	5.15	5.87	9.72
2021	6.98	7.84	6.33	6.19	6.29	5.79	7.78	5.63	4.09	7.30	5.64	8.23
2022	7.61	6.81	6.57	6.35	6.03	6.65	8.06	5.76	6.34	4.20	5.01	12.78
2023	8.67	7.40	8.73	9.36	7.93	6.04	7.12	5.64	5.72			


T-TSA Daily Influent Flow
Million Gallons
10
9
8
7
6
5
4
3
2
1
0
NEW YEAR'S DAY
MLK WEEKEND
PRESIDENT'S DAY
MEMORIAL
JULY 4TH
LABOR DAY
CHRISTMAS
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
2021
2022
2023



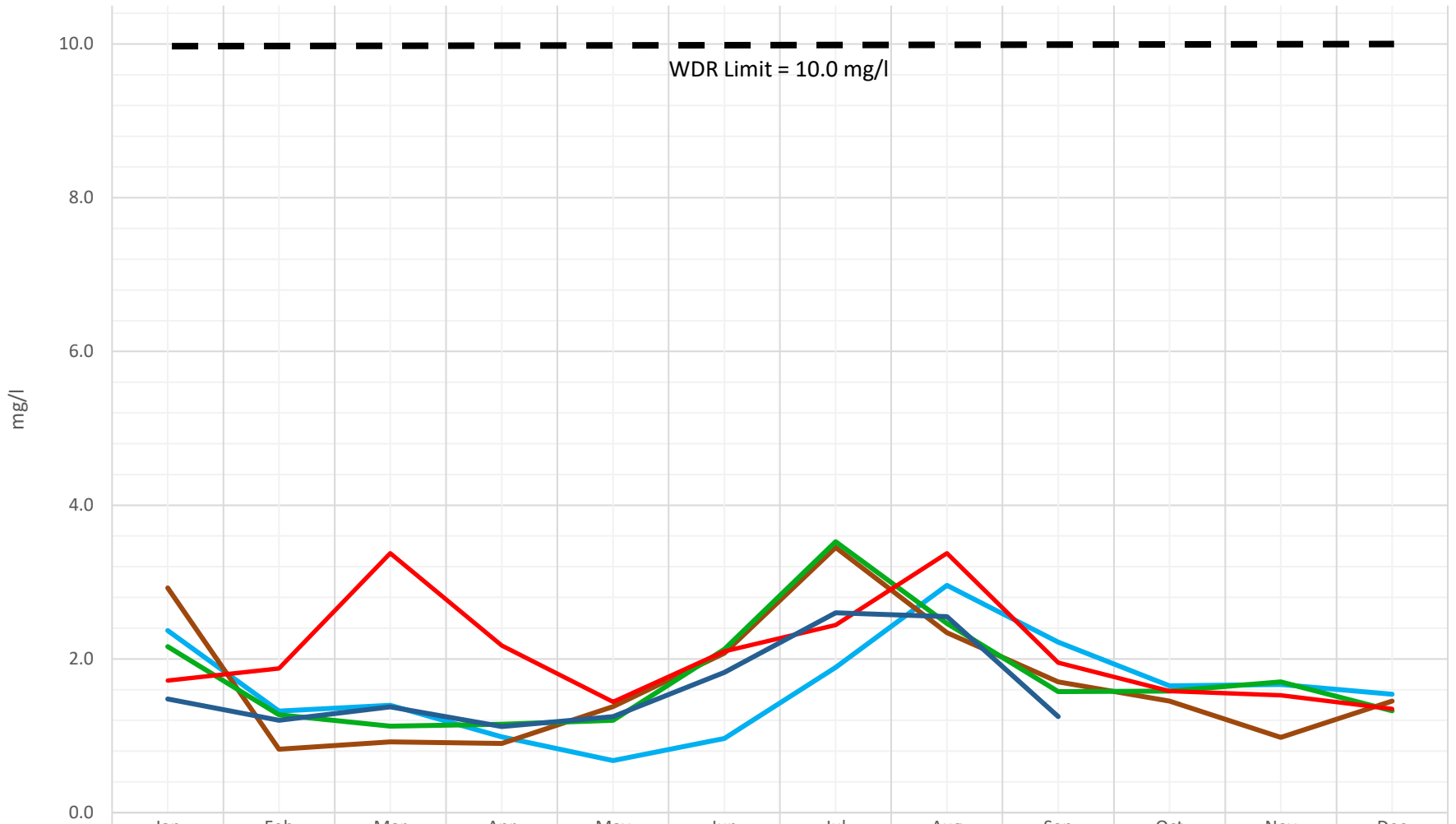
	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
NTPUD	0.54	0.46	0.46	0.64	0.84	0.77	1.01	1.43	1.28	0.92	0.91	0.72	0.58
TCPUD	0.45	0.36	0.34	0.55	0.75	0.64	0.87	1.14	1.43	0.95	1.01	0.77	0.58
ASCWD	0.03	0.03	0.03	0.07	0.12	0.10	0.12	0.15	0.19	0.11	0.06	0.04	0.04
OVPSD	0.13	0.11	0.12	0.34	0.41	0.37	0.42	0.44	0.32	0.20	0.21	0.16	0.14
TSD	1.67	1.51	1.56	2.04	2.31	2.05	2.29	3.05	2.63	2.20	2.11	1.86	1.71

Monthly Average Daily Turbidity (Effluent)



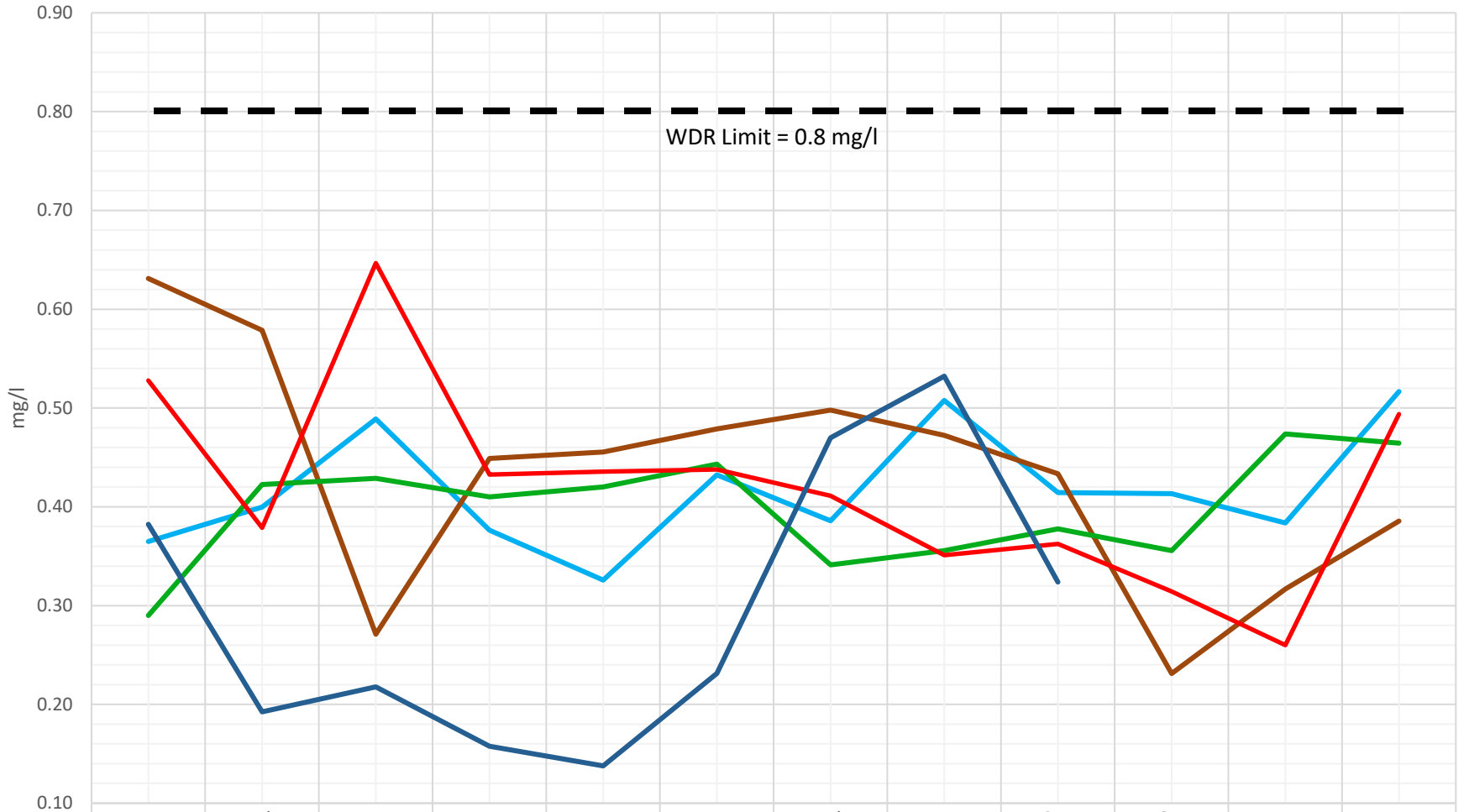
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	2.1	1.5	1.4	1.2	0.7	1.2	1.9	2.1	1.8	2.1	2.4	2.3
2020	2.2	1.1	1.1	1.1	1.2	1.6	2.9	2.3	1.8	1.2	1.0	1.4
2021	1.4	0.9	0.9	1.1	1.3	1.9	2.7	1.7	1.4	1.3	1.2	1.2
2022	1.2	1.5	2.0	1.6	1.1	1.6	2.0	2.4	1.6	1.3	1.1	1.4
2023	1.3	1.4	1.3	1.1	1.3	1.8	1.9	2.0	1.7			

Monthly Average Daily Suspended Solids (Effluent)



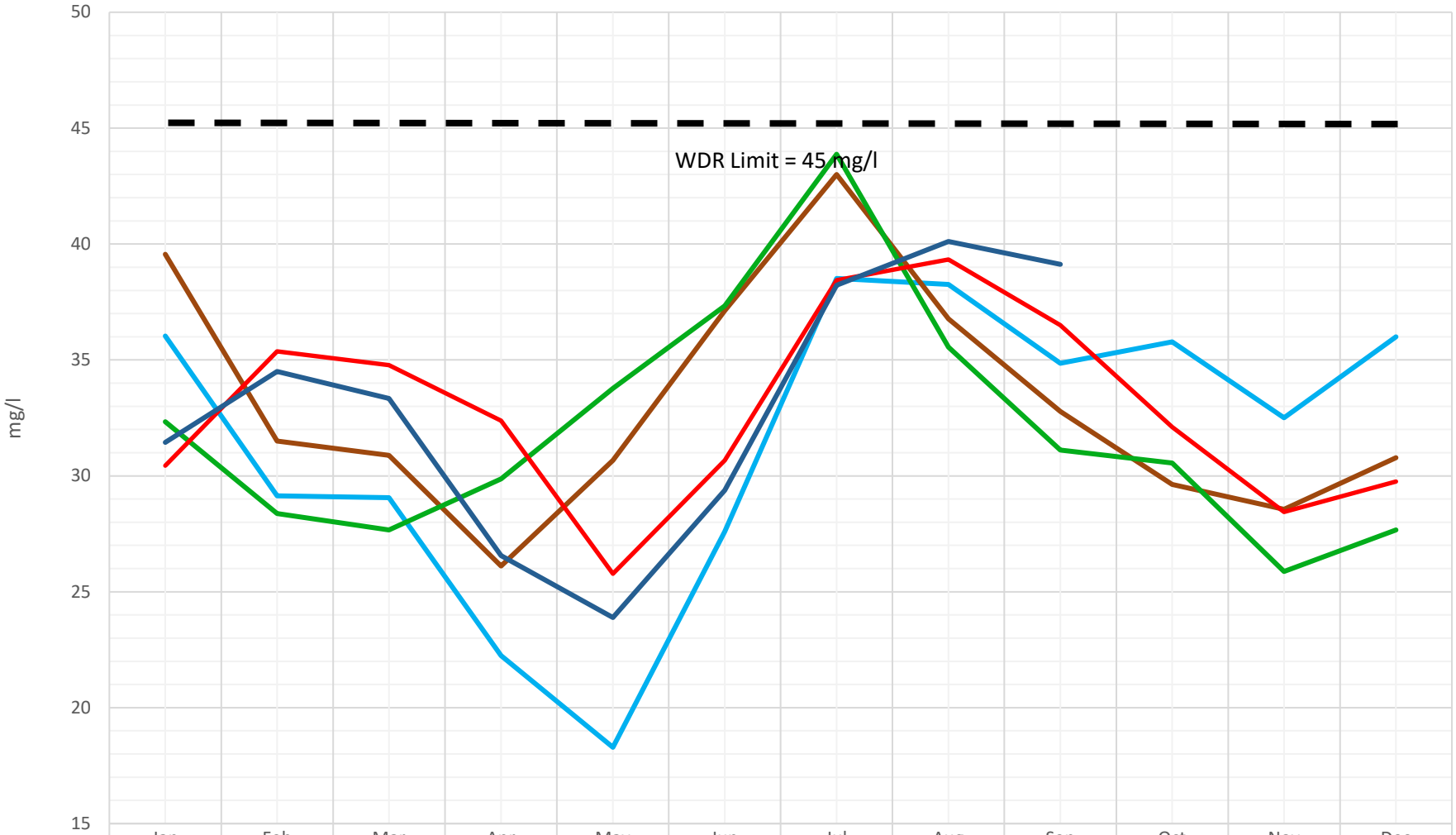
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	2.4	1.3	1.4	1.0	0.7	1.0	1.9	3.0	2.2	1.7	1.7	1.5
2020	2.9	0.8	0.9	0.9	1.4	2.1	3.5	2.3	1.7	1.5	1.0	1.5
2021	2.2	1.3	1.1	1.2	1.2	2.1	3.5	2.5	1.6	1.6	1.7	1.3
2022	1.7	1.9	3.4	2.2	1.4	2.1	2.4	3.4	2.0	1.6	1.5	1.4
2023	1.5	1.2	1.4	1.1	1.3	1.8	2.6	2.6	1.3			

Monthly Average Daily Total Phosphorus (Effluent)

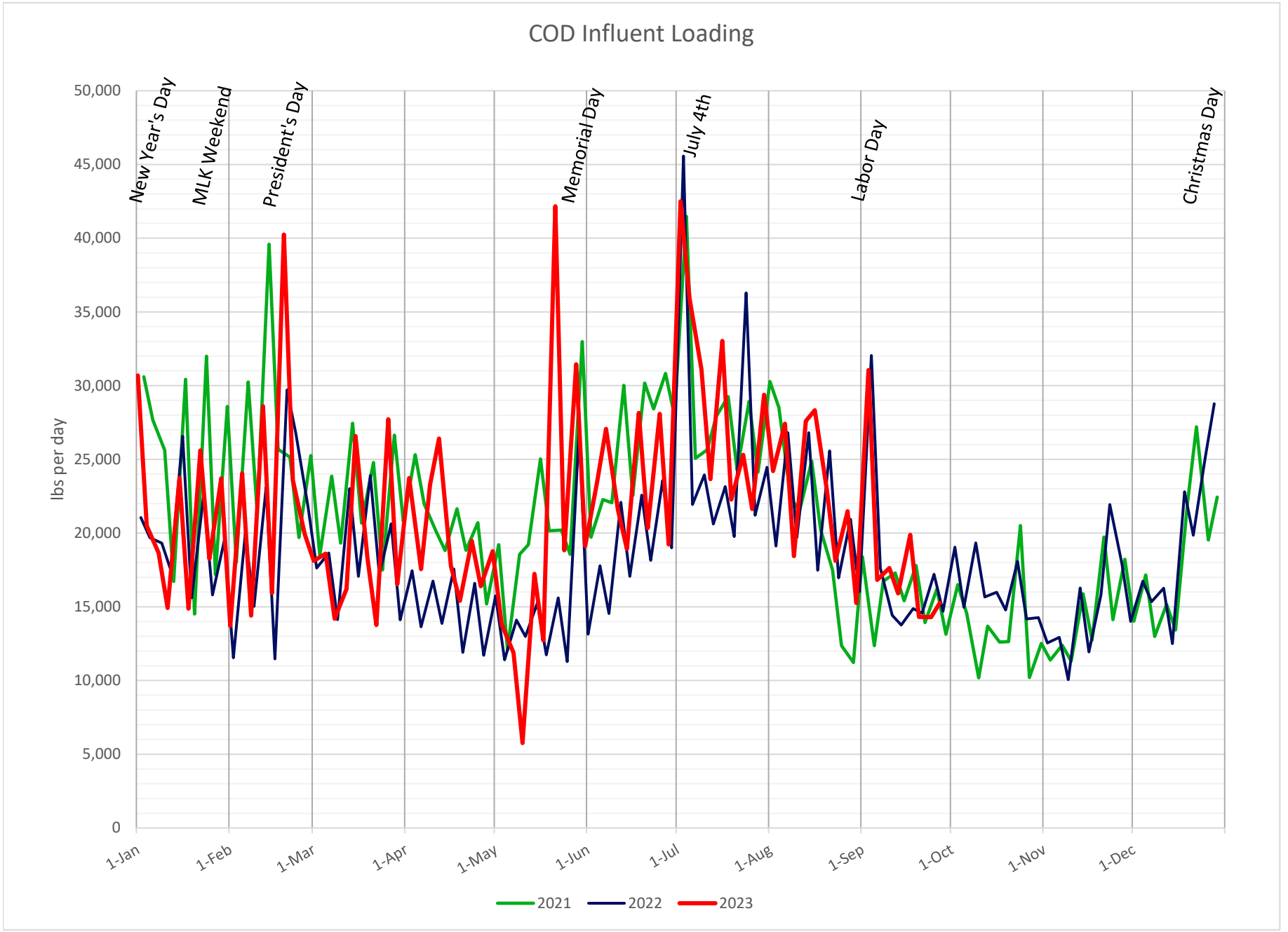


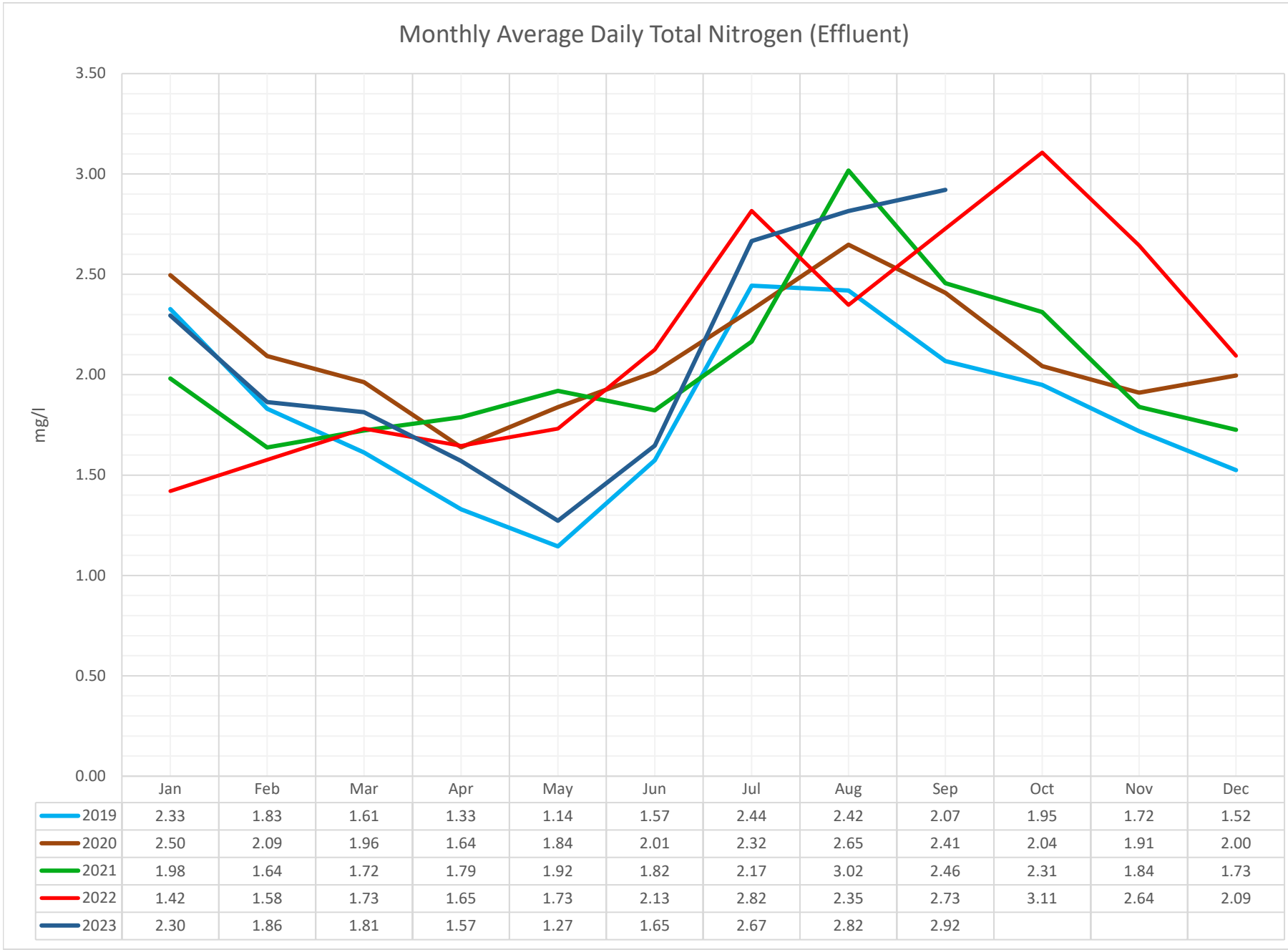
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	0.36	0.40	0.49	0.38	0.33	0.43	0.39	0.51	0.41	0.41	0.38	0.52
2020	0.63	0.58	0.27	0.45	0.46	0.48	0.50	0.47	0.43	0.23	0.32	0.39
2021	0.29	0.42	0.43	0.41	0.42	0.44	0.34	0.36	0.38	0.36	0.47	0.46
2022	0.53	0.38	0.65	0.43	0.44	0.44	0.41	0.35	0.36	0.31	0.26	0.49
2023	0.38	0.19	0.22	0.16	0.14	0.23	0.47	0.53	0.32			

Monthly Average Daily Chemical Oxygen Demand (Effluent)

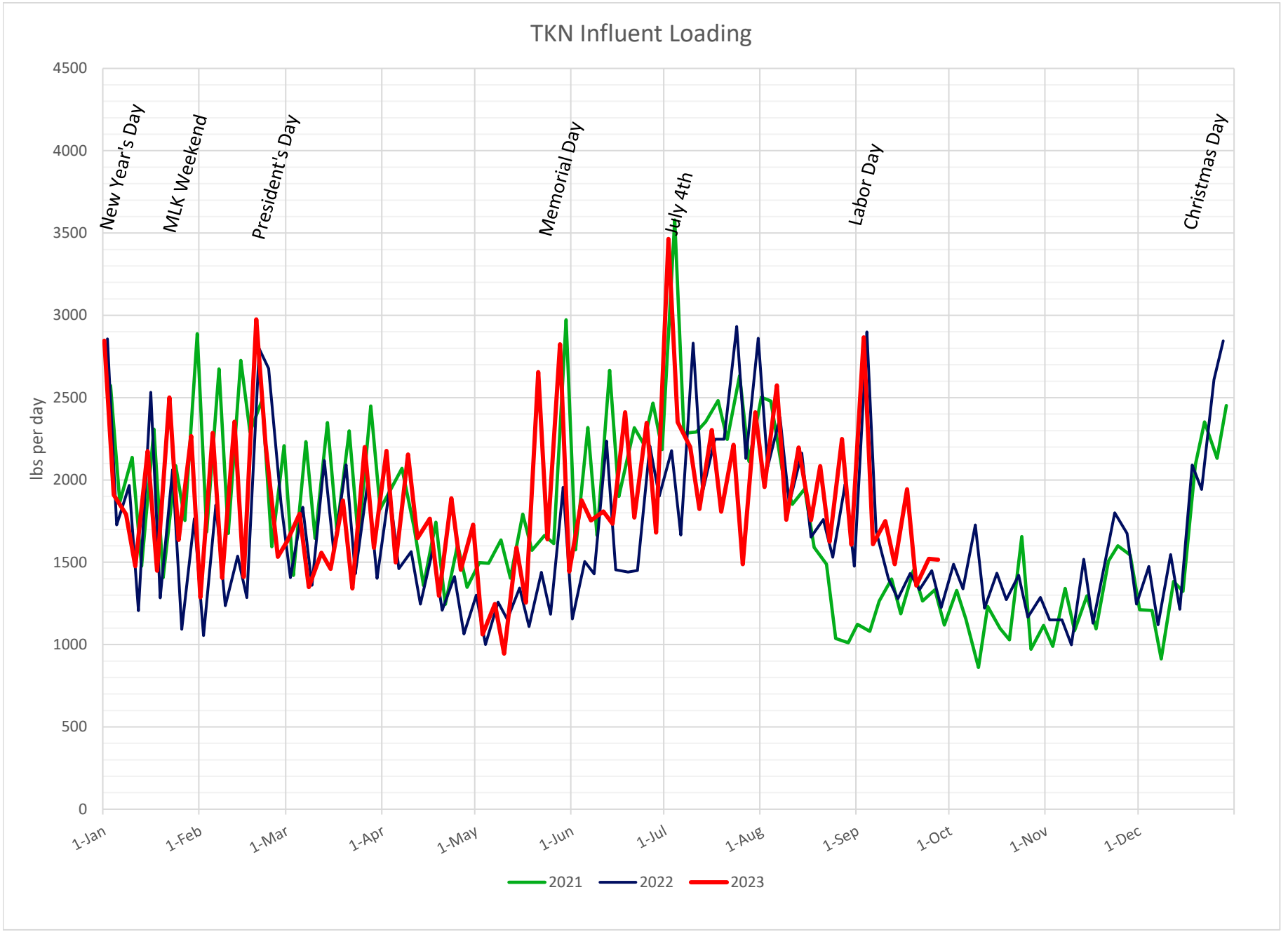


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	36	29	29	22	18	28	39	38	35	36	33	36
2020	40	32	31	26	31	37	43	37	33	30	29	31
2021	32	28	28	30	34	37	44	36	31	31	26	28
2022	30	35	35	32	26	31	38	39	37	32	28	30
2023	31	35	33	27	24	29	38	40	39			

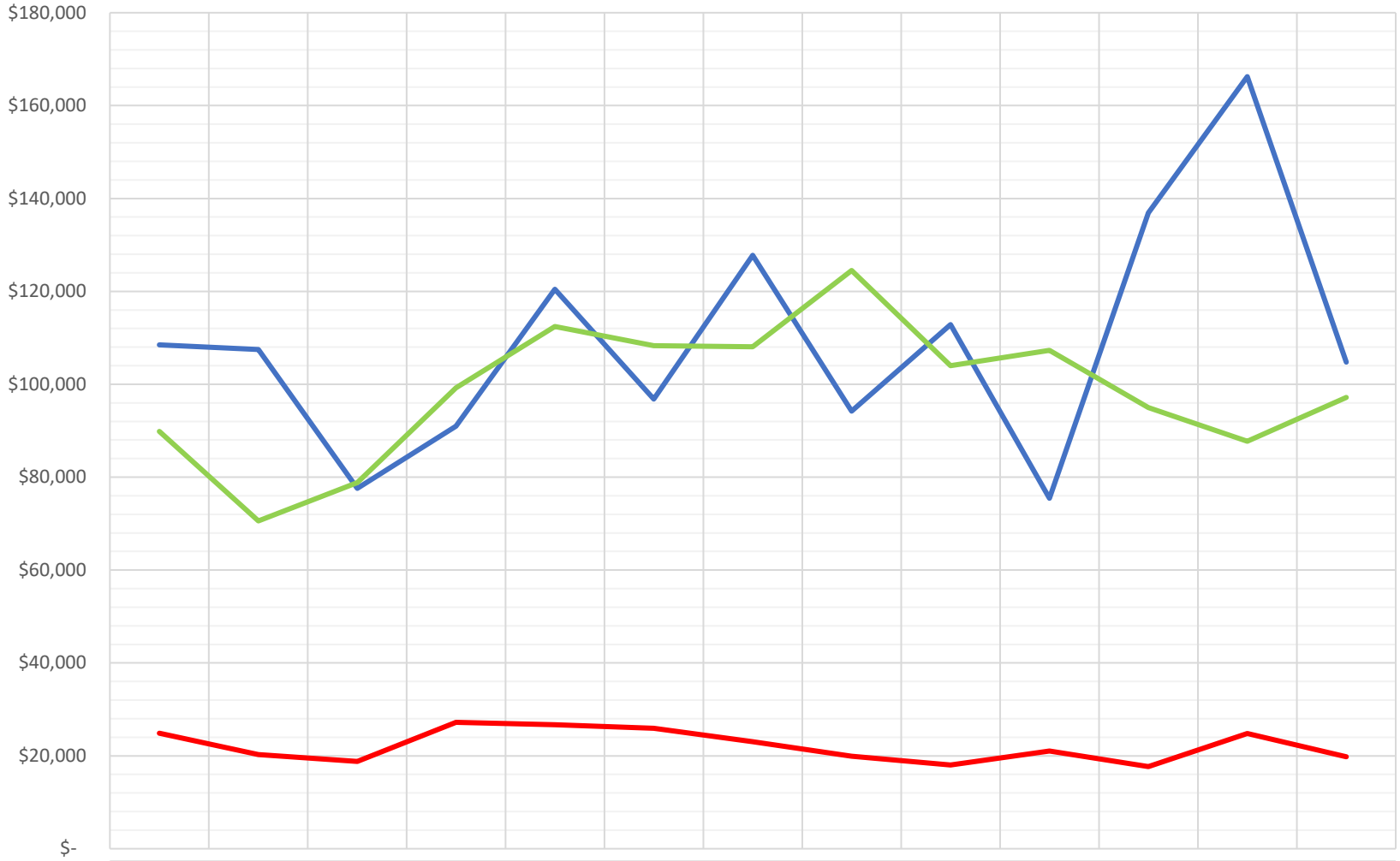

COD Influent Loading
lbs per day
50,000
45,000
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
New Year's Day
MLK Weekend
President's Day
Memorial Day
July 4th
Labor Day
Christmas Day
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
2021
2022
2023



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2019	2.33	1.83	1.61	1.33	1.14	1.57	2.44	2.42	2.07	1.95	1.72	1.52
2020	2.50	2.09	1.96	1.64	1.84	2.01	2.32	2.65	2.41	2.04	1.91	2.00
2021	1.98	1.64	1.72	1.79	1.92	1.82	2.17	3.02	2.46	2.31	1.84	1.73
2022	1.42	1.58	1.73	1.65	1.73	2.13	2.82	2.35	2.73	3.11	2.64	2.09
2023	2.30	1.86	1.81	1.57	1.27	1.65	2.67	2.82	2.92			


TKN Influent Loading
lbs per day
4500
4000
3500
3000
2500
2000
1500
1000
500
0
New Year's Day
MLK Weekend
President's Day
Memorial Day
July 4th
Labor Day
Christmas Day
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
2021
2022
2023

Chemical, Power and Sludge Disposal Costs



	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23
Chemicals	$108,468	$107,489	$77,582	$91,000	$120,444	$96,819	$127,789	$94,188	$112,871	$75,453	$136,937	$166,243	$104,787
Power	$89,878	$70,580	$78,822	$99,246	$112,421	$108,330	$108,071	$124,505	$104,022	$107,321	$94,973	$87,706	$97,138
Sludge Disposal	$24,891	$20,280	$18,808	$27,209	$26,725	$25,917	$23,068	$19,905	$18,018	$21,060	$17,679	$24,789	$19,774

TAHOE-TRUCKEE SANITATION AGENCY
MAINTENANCE DEPARTMENT REPORT

Date: October 18, 2023
To: Board of Directors
From: Paul Shouse, Maintenance Manager
Subject: Maintenance Report.

- **Project Support:** During the month of September, Maintenance staff provided support for the following projects:
  - Boiler Replacement Project.
  - Sodium Hypochlorite Project.
  - SCADA/IT Master Plan implementation.
  - Landscape Project.
  - 2023 Roof Repair Project.
  - Warehouse Inventory Project.
  - Digester Cleaning Project.

- **Plant Maintenance activities:** Maintenance staff performed tasks on the following items:
  - Completed BNR switchgear PLC upgrade.
  - Installed power fail relays to TRI telemetry sites.
  - Replaced final effluent CL2 residual analyzer.
  - Rebuilt digester #33 transfer pump.
  - Removed solids and vegetation from ERB and installed k-rail for digester cleaning.
  - Fabricated stand for sander.
  - Upgraded fuel oil system controls and instrumentation.
  - Installed davit arm mounts to BNR structure.
  - Repaired 2 water yard hydrant to secondary #2.
  - Replaced seals and sheave on flocculation mixer.

- **Work Orders**
  - Completed: Mechanical-36, Fleet-18, Electrical & Instrumentation-10, IT-7.
  - Pending: Mechanical-125, Fleet-53, Electrical & Instrumentation-40, IT-86.

Review Tracking:

Submitted By: _____
Paul Shouse
Maintenance Manager

Approved By: _____
Richard Pallante
General Manager

Two-water Yard Hydrant Repair at Secondary #2


Emergency Retention Basin Prep

Flucculation Mixer Repair

In-house Fabricated Sander Stand

BNR Switchgear Main

Digester #33 Transfer Pump Rebuild

TAHOE-TRUCKEE SANITATION AGENCY
ENGINEERING DEPARTMENT REPORT

Date: October 18, 2023

To: Board of Directors

From: Aaron Carlsson, P.E., Senior Engineer

Subject: Engineering Report.

- **Projects:** In the month of September, Engineering staff continued working on the following projects:
  - 2021 Chlorine Scrubber Improvements Project.
  - 2023 Roof Repair Project.
  - 2023 TRI Digital Scanning Project.
  - Boiler Replacement Project.
  - 2022 Filter Influent Condition Assessment Project.
  - 2022 Sodium Hypochlorite Disinfection Full Scale Project.
  - 2022 TRI Alpine Meadows to Olympic Valley Rehabilitation Project.
  - 2024 Front Parking & Landscaping Improvements Project.

- **Work Orders:**
  - Engineering:
    - Completed this month: 0
    - Pending: 0
  - Safety:
    - Completed this month: 0
    - Pending: 0

Review Tracking:

Submitted By: _____ Approved By: _____

Aaron Carlsson, P.E.
Senior Engineer

Richard Pallante
General Manager

ROOF REPAIR PROJECT

Staging Area for Materials

Building 24 – Roof Replacement

TAHOE-TRUCKEE SANITATION AGENCY
ADMINISTRATIVE DEPARTMENT REPORT

Date: October 18, 2023

To: Board of Directors

From: Crystal Sublet, Finance and Administrative Manager

Subject: Administrative Report.

♦ **Finance**

- Completed monthly A/P, A/R, payroll, general ledger processes, and bank reconciliation.
- Participated in Finance Committee Meeting and Special Finance Committee meeting.
- Review of Central Square Software.
- Demo with US Bank regarding their P-card Demo.
- Demo with Wells Fargo regarding their P-Card Demo.
- Prepare for Final Audit.

♦ **Billing/Customer Service**

- General assistance with customer accounts, utility demands, adjustments, and plan review.
- Activated new account permits and prepared letters, reports and invoices.
- Continued work on Connection Fee Study.
- Work on creating T-TSA Code Book.

♦ **Purchasing/Administration**

- General purchasing responsibilities for monthly requisitions, purchase orders and ordering.
- General responsibilities to customer service, front gate and front desk.

♦ **General Administration**

- Performed various administrative duties to assist Interim General Manager and Board of Directors.
- Participated in Special Finance Committee Meeting.
- Worked with Kenneth Dieker, Del Rio Advisors, LLC on Plan of Finance.
- Final audit planning and preparation.
- Support in working on T-TSA Code Book.
- Quarterly CIP review and discussion.

Review Tracking

Submitted By: Crystal Sublet — Approved By: Richard Pallante

Crystal Sublet
Finance and Administrative Manager

Richard Pallante
General Manager

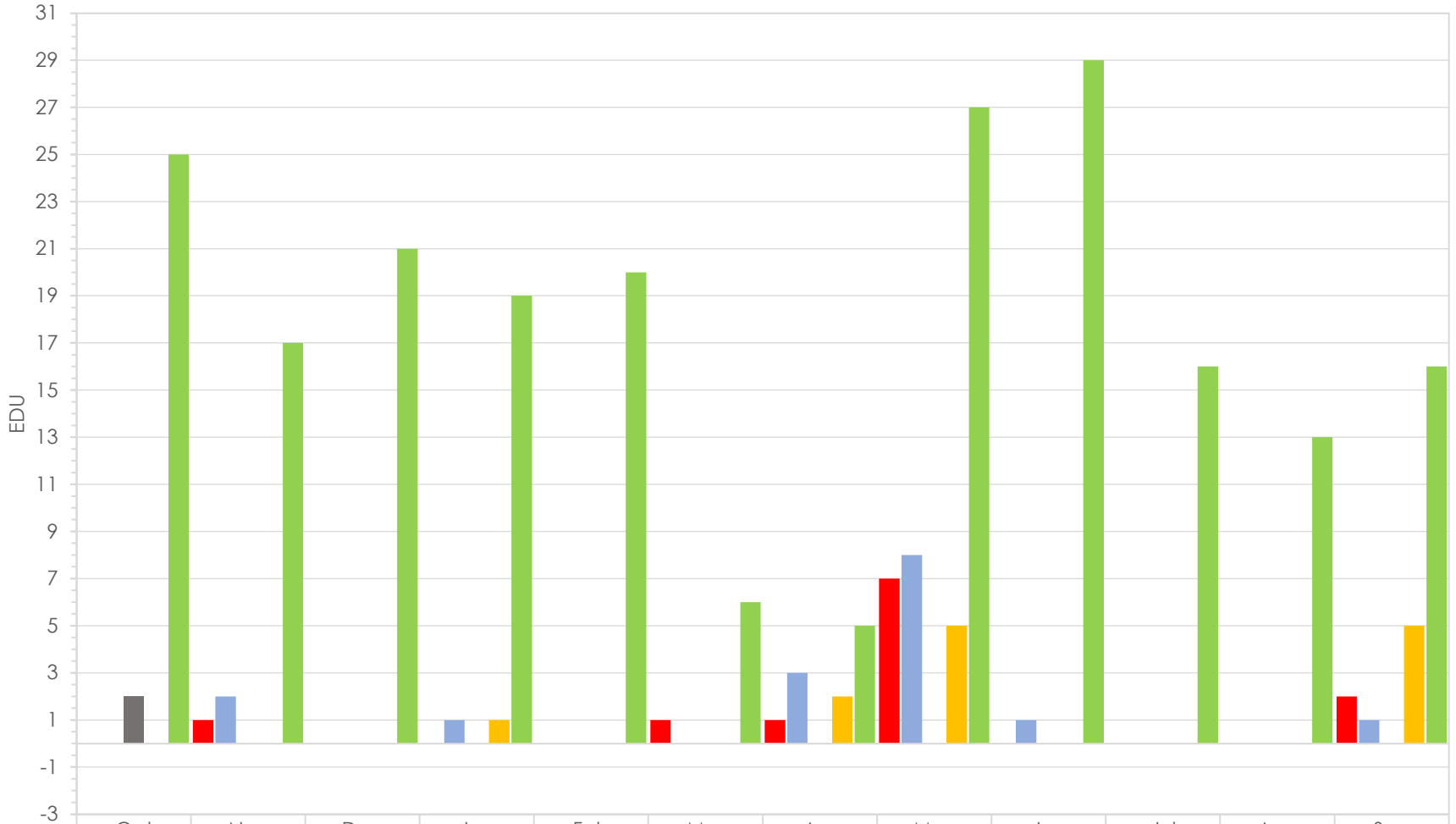
CONNECTION FEES - SEPTEMBER 2023

Connection Fee Type	MTD Count (#)	MTD Total Ft²	MTD Total $	YTD Count (#)	YTD Total Ft²	YTD Total $
Residential	13	44,150	$ 96,762.50	141	405,144	$ 901,344.63
Residential Ft² Additions	5	6,552	$ 11,465.13	36	71,462	$ 125,057.63
Residential Ft² Additions - Exempt	0	0	N/A	1	378	N/A
Accessory Dwelling Unit (ADU)	2	1,772	$ 6,101.00	9	6,661	$ 25,156.75
Accessory Dwelling Unit (ADU) - Exempt	1	453	N/A	3	1,315	N/A
Commercial	0	N/A	$ -	5	N/A	$ 177,300.00
Industrial	0	N/A	$ -	0	N/A	$ -
Grand Total	**21**	**52,927**	**$ 114,328.63**	**195**	**484,959**	**$ 1,228,859.00**

INSPECTIONS - SEPTEMBER 2023

Inspection Type	MTD Count #	MTD Total	YTD Count #	YTD Total
Commercial	1	1	7	7
Residential (Drive-by of Suspended Accounts)	0		0	

Residential EDU Summary

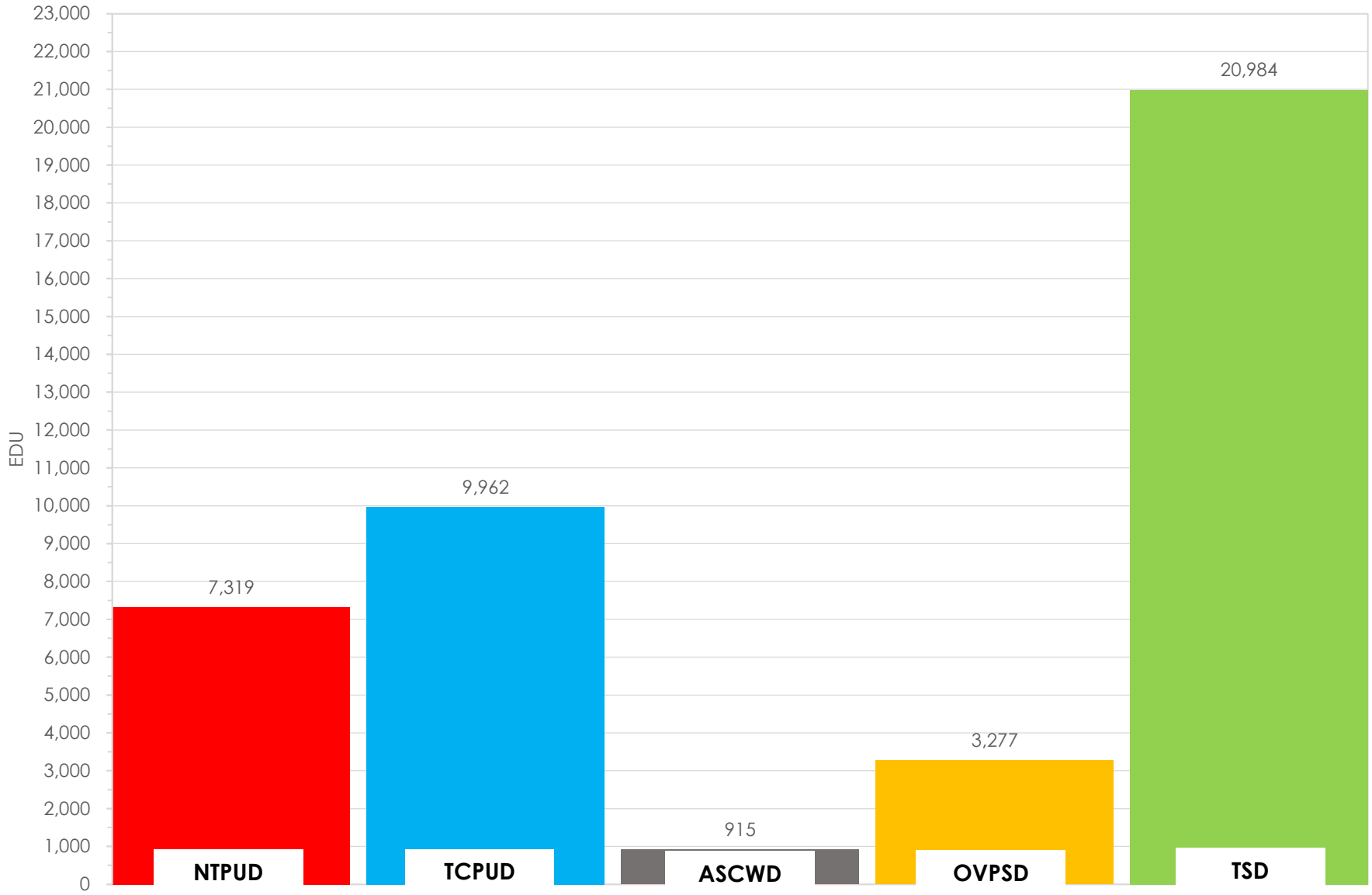


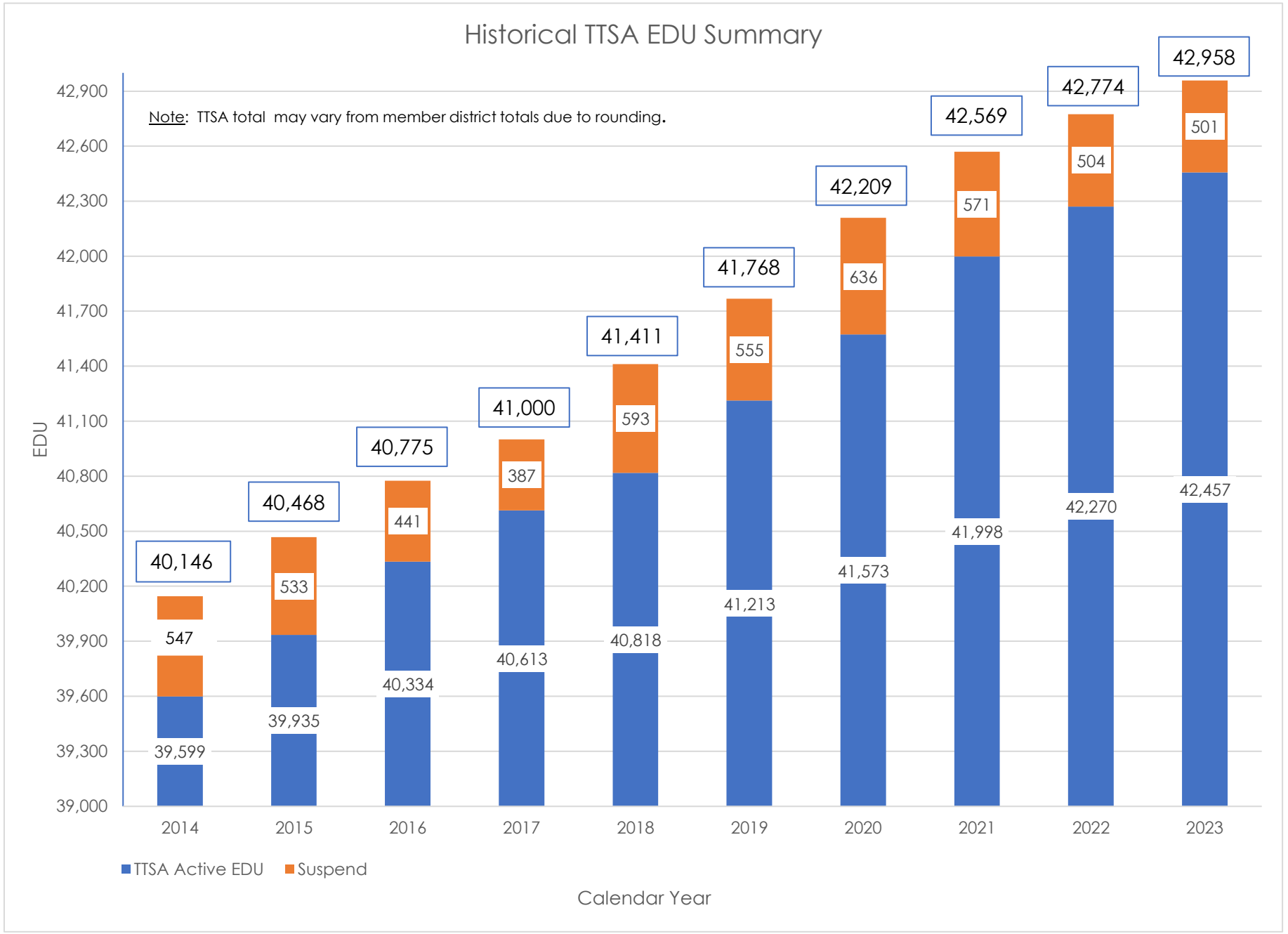
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NTPUD	0	1	0	0	0	1	1	7	0	0	0	2
TCPUD	0	2	0	1	0	0	3	8	1	0	0	1
ASCWD	2	0	0	0	0	0	0	0	0	0	0	0
OVSPD	0	0	0	1	0	0	2	5	0	0	0	5
TSD	25	17	21	19	20	6	5	27	29	16	13	16

Other EDU Summary

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
NTPUD	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	1.7	0.0	3.0	0.0
TCPUD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
ASCWD	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OVSPD	0.0	0.0	0.0	(2.3)	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
TSD	0.9	0.0	3.9	(5.1)	0.5	0.0	0.0	0.0	2.3	3.7	(11.6)	5.2

Current EDU Summary
By Member District




Historical TTSA EDU Summary
Note: TTSA total may vary from member district totals due to rounding.
EDU
42,900
42,600
42,300
42,000
41,700
41,400
41,100
40,800
40,500
40,200
39,900
39,600
39,300
39,000
40,146
547
39,599
40,468
533
39,935
40,775
441
40,334
41,000
387
40,613
41,411
593
40,818
41,768
555
41,213
42,209
636
41,573
42,569
571
41,998
42,774
504
42,270
42,958
501
42,457
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
TTSA Active EDU
Suspend
Calendar Year

TAHOE-TRUCKEE SANITATION AGENCY
GENERAL MANAGER REPORT

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: VI-2
Subject: General Manager Report.

♦ **Highlights From Previous Month:**

- HR Consultant continued working with select Agency staff on leadership skill building and overall work group team building.
- Staff Continues to evaluate the effects of using sodium hypochlorite and complete work scope for a permanent dosing facility.
- Management and staff continued to work with consultant on Connection Fee Study.
- Management and staff continued implementation of the new software programs.
- Management and staff continued work on CIP projects.
- Continued Land exchange with Tahoe Truckee Airport District.
- Continued work on Agency landscape improvements and signage update.
- Attended River Revitalization Steering Committee.
- Attended T-TSA Member District Managers Meeting at NSCSD.
- Safety Officer provided an updated CPR First Aid AED training class to staff.
- HR scheduled Free Flu Shots from Tahoe Forest Health in October for all staff.
- Collaborated with TSD & TDPUD on article for 2023 Water Professionals Appreciation Week.
- Staff held a tailgate potluck with finger foods and favorite dishes to celebrate the end of summer.
- Butterfield Fire Update – District Attorney asked for a revocation of defendant's Mental Health Diversion Review program. At 9/11/23 court date, she failed a drug test that the DDA asked for on the spot. Next court date will be 10/16/23.

♦ **Upcoming Items of Interest:**

- CA Water Professionals Appreciation Week Oct. 7-15.
- HR scheduled Free Flu Shots from Tahoe Forest Health for all staff, Thursday, Oct. 12th.
- Halloween Breakfast and Costume Contest on Thursday, October. 26th.
- Management scheduled Strategic Plan meeting for Tues, Nov. 28th.

Review Tracking

Submitted By: _____
Richard Pallante
General Manager


EXIT


EXIT

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023

To: Board of Directors

From: Richard Pallante, General Manager

Item: VII

Subject: Board of Director Comment.

Background

Opportunity for directors to ask questions for clarification, make brief announcements and reports, provide information to staff, request staff to report back on a matter, or direct staff to place a matter on a subsequent agenda.

TAHOE-TRUCKEE SANITATION AGENCY
MEMORANDUM

Date: October 18, 2023
To: Board of Directors
From: Richard Pallante, General Manager
Item: VIII
Subject: Adjournment.
