



Paradise Irrigation District

6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

AGENDA

REGULAR MEETING PARADISE IRRIGATION DISTRICT BOARD OF DIRECTORS PID BOARD ROOM

6332 CLARK ROAD, PARADISE, CA 95969

WEDNESDAY, NOVEMBER 15, 2023 – 5:30 PM

- ❖ *The Board of Directors is committed to making its meetings accessible to all citizens. Any person requiring a special accommodation to participate, is requested to contact the District Secretary at (530) 876-2039 at least 48 hours in advance of the meeting.*

- ❖ *The following options are available for members of the public interested in participating in the meeting remotely:*

Via Zoom Meeting: <https://us02web.zoom.us/j/88192841237>

Telephone: +1 669 900 6833 US (San Jose)

Meeting ID: 881 9284 1237

To improve participation during the meeting, we will be accepting public comments from Zoom Meeting participants during the meeting. The Board cannot take action on any matter not on the agenda. Public comments specific to an agenda item will be read directly after the agenda item and before the Board votes on an item.

Via Email or Telephone: Public comment will be accepted by email with the subject line PUBLIC COMMENT ITEM NO. ____ to gborrayo@paradiseirrigation.com or telephone (530) 876-2039 prior to 4:00 p.m. on the day of the meeting.

1. **OPENING:**

- a. Call to Order
- b. Public & Board Members; please silence your cell phones.
- c. Reflection and Pledge of Allegiance
- d. Roll Call

2. **PUBLIC COMMENT:**

Individuals will be given an opportunity to address the Board regarding matters not scheduled on the agenda, although the Board cannot take action on any matter not on the agenda. Comments will be limited to 3 minutes per speaker. Opportunity for public comment on agenda items will be provided at the time they are discussed by the Board with comments limited to 3 minutes per agenda item.

3. **APPROVAL OF CONSENT CALENDAR:** *Action may be taken.*

- a. Approval of Meeting Agenda Order
- b. Approval of Minutes – Regular Meeting of October 18, 2023
- c. Approval of Update - PID Pipeline Installation Procedures and Specifications and Revisions to Standard Drawings PID-05, PID-15, and PID-18

(Pg. 4-7)

(Pg. 8-37)

4. **TREASURER'S UPDATE:**

- a. **Treasurer's Report:** Review and acceptance of the Treasurer's Report for the period ending October 31, 2023. *Action may be taken.*

1. [October Investment Summary](#) (Click link to view)

(Pg. 38-51)

(Pg. 52-61)

- b. **Expense Approval Report:** Approval of payments consisting of check numbers 58038 through 58051 in the amount of \$3,251,831.28, and electronic payments of \$1,657,892.60 by EFT for the month of October 2023 for total payments of \$4,909,723.88, excluding voided check numbers 58048 and 58049, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of November 2023. *Action may be taken.*

5. **PID STAFF & CONSULTANT REPORT UPDATES:** Verbal and written report updates from staff and consultants. *Informational Report Updates. Direction may be given.*

- a. District Manager's Report
- b. Customer Service Activity Report
- c. Field Operations Staff Report
- d. Water Treatment Plant Staff Report
- e. Engineering Report
- f. Water Supply Recovery Program Update: Progress update provided by Water Works Engineers
- g. Post Fire Disaster Public Assistance & Recovery Management Services Update: Update provided by Aptim Environmental & Infrastructure.

(Pg. 62-63)

(Pg. 64-65)

(Pg. 66-69)

(Pg. 70)

(Pg. 71-73)

6. **COMMITTEE REPORTS:** *Information Item Only.*

Board oral report(s) regarding representation on Commissions/Committees/Conferences:

- a. Finance Committee (Directors Chris Rehmann & Bob Matthews – Chairperson)
- b. Administration & Personnel Committee (Directors Bob Matthews & Shelby Boston - Chairperson)
- c. Special District Leadership Academy Conference (Director Bob Matthews)

(Pg. 74-78)

7. **UNFINISHED BUSINESS – None to Report**

8. **NEW BUSINESS – None to Report**

9. **DIRECTORS' COMMENTS:** *Information Item Only.*

10. **ADJOURNMENT**

CONSENT CALENDAR
REGULAR MEETING
PARADISE IRRIGATION DISTRICT
BOARD OF DIRECTORS

WEDNESDAY, NOVEMBER 15, 2023 – 5:30 PM

AGENDA ITEM 3 – APPROVAL OF CONSENT CALENDAR:

- A. APPROVAL OF MEETING AGENDA ORDER
- B. APPROVAL OF MINUTES – REGULAR MEETING OF OCTOBER 18, 2023
Action Requested: Approve Minutes for the regularly scheduled meeting of the Board of Directors on October 18, 2023.
- C. APPROVAL OF UPDATE TO PID PIPELINE INSTALLATION PROCEDURES & SPECIFICATIONS:
Action Requested: Approve update to Pipeline Installation Procedures and Specifications and Standard Drawings PID-05, PID-15, and PID-18.

MINUTES

REGULAR MEETING
BOARD OF DIRECTORS
PARADISE IRRIGATION DISTRICT
OCTOBER 18, 2023

The regular meeting of the Board of Directors of the Paradise Irrigation District (PID) was called to order at 5:30 p.m. by President Shelby Boston followed by an announcement regarding Operation Green Light to show support for veterans by illuminating buildings, porch lights or windows with green light through November 11th. Announcement followed by The Pledge of Allegiance to the Flag of the United States of America.

OPENING

BOARD MEMBERS PRESENT: Directors Marc Sulik, Elliott Prest, Vice President Bob Matthews, and President Shelby Boston

ROLL CALL

BOARD MEMBERS ABSENT: Director Chris Rehmann

STAFF PRESENT: District Manager Tom Lando, Assistant District Manager Mickey Rich, Finance Manager/Treasurer Brett Goodlin, Administrative Assistant Sarah Fenton, and Secretary Georgeanna Borrayo

ALSO PRESENT: Consultants Sami Kader, Colleen Boak, and Joe Riess with Water Works Engineers, Nicole Maddox and Brandon Kanatani with APTIM Environmental & Infrastructure, and members of the public

Paradise property owner Marianne Scott commented on prior communications with the District wherein she requested a discontinuance of water service for 591 Pearson Road, the former location of Dolly-O-Donuts. Ms. Scott indicated she was not aware of the deadline to discontinue service and would not be rebuilding at this address; adding she feels it is unreasonable to continue to pay for a service she does not plan to use again. Ms. Scott stated she recalled contacting the District via telephone the end of May or early June requesting to discontinue water service and was informed of the deadline. She later wrote a letter to District Manager Tom Lando with a request to terminate water service and received a written response confirming the District's Policy regarding Customer Disconnections of Water Service.

PUBLIC COMMENT
(Item 2)

District Manager Tom Lando indicated the District will authorize her request for discontinuance of water service for 591 Pearson Road and will contact her to follow up upon review of account information.

Additional customer communication from Robert Herman to the Board of Directors was included in the agenda packet regarding discontinuance of service for 1737 Drayer Drive. No further comments were submitted for the public comment portion of the meeting.

Board members reviewed consent calendar items as follows:

APPROVAL OF
CONSENT
CALENDAR
(Item 3.a. to 3.f.)

- 3.a. Approval of Meeting Agenda Order
- 3.b. Approval of Minutes – Regular Meeting of September 20, 2023
- 3.c. Approval of Resolution No. 2023-14 Declaring Surplus Property – 1999 Water Truck
- 3.d. Approval of Notice of Completion & Acceptance – Service Lateral Replacement Project for work completed by Sutton Enterprises

CONTINUED -
APPROVAL OF
CONSENT
CALENDAR

- 3.e. Approval of Letter of “Merit Rejection” – Claim for Damages for 612 Circlewood Drive
3.f Approval of Employee Awards Recognition: Authorize Employee Safety Awards
Recognition & Closure of District facilities at 12:00 p.m. on December 14, 2023

It was moved by Director Matthews and seconded by Director Sulik to approve the Consent Calendar as presented. Directors’ votes were polled as follows by roll call:

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Rehmann

Motion passes 4-0

ACCEPTANCE OF
TREASURER’S
REPORT FOR
PERIOD ENDING
SEPT. 30, 2023
(Item 4.a.)

Board members reviewed a written Treasurer’s Report prepared by Finance Manager / Treasurer Brett Goodlin for the period ending September 30, 2023, highlighting the District’s cash position, debt service analysis, operational overview, investment income, and update to the Fiscal Year-to-Date Income and Expense Report. In an effort to save paper, Board members concurred the Monthly Investment Report prepared by Meeder Public Funds may be included as a link in the agenda packet.

It was moved by Director Sulik and seconded by Director Prest to approve the Treasurer’s Report as presented for the period ending September 30, 2023.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Rehmann

Motion passes 4-0

EXPENSE
APPROVAL
REPORT FOR THE
MONTH OF
SEPTEMBER, 2023
(Item 4.b.)

Board members reviewed accounts payable expense reports for the month of September 2023 and concurred the entire list of itemized payments is not necessary to include in the agenda packet. The Expense Report Summary will suffice.

It was moved by Director Prest and seconded by Director Sulik to approve payments consisting of check numbers 58018 through 58034 in the amount of \$450,597.55, and electronic payments of \$1,185,576.33 by EFT for the month of September 2023 for total payments of \$1,636,173.88, and authorization of a similar amount allowing or adjusting for extraordinary budget or Board approved items during the month of October 2023.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Rehmann

Motion passes 4-0

CAPITAL ONE
LOAN STATUS &
STRATEGY
(Item 4.c.)

Board members reviewed a written memo from Treasurer Goodlin regarding a recent development concerning the District’s outstanding loans and to propose a strategy to address the technical default notification under the terms of our current agreement with Capital One. The specific issue revolves around the stipulation that our net revenues must be at least 1.25 times the annual debt service payments. While the District has substantial cash reserves available in its investment account, these funds are not considered in the loan agreement terms for coverage of debt payments. In light of information received from Capital One, Treasurer Goodlin suggested paying off the balance of this loan with the District’s next scheduled loan payment due November 1, 2023.

It was moved by Director Matthews and seconded by Director Sulik to pay off the Capital One loan balance in full as recommended.

CONTINUED –
CAPITAL ONE
LOAN STATUS &
STRATEGY

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Rehmann

Motion passes 4-0

Board members reviewed written Staff and Consultant Report updates provided in the agenda packet. Discussion included: 1) Paradise Irrigation District awarded the District Transparency Certificate of Excellence by the Special District Leadership Foundation in recognition of its efforts to promote transparency and good governance; 2) Status update regarding the PID Classification & Compensation Study; 3) Recommendation to submit a letter to the California Public Utilities Commission (CPUC) with respect to the PG&E 2023 General Rate Increase to urge the CPUC to revisit its proposed decisions to scale back PG&E undergrounding efforts; 4) Water Supply Recovery Program Update from Water Works Engineers; and 6) Post Fire Disaster Public Assistance & Recovery Management Services update from Aptim Environmental & Infrastructure.

PID STAFF &
CONSULTANT
REPORT UPDATES
(Item 5.a. – 5.g.)

Finance Committee: Director Matthews reported discussion at the October 5th committee meeting included a Year-to-Date Finance Update and Expense Report for September 1 to 30, 2023, which is included in the agenda packet for review under the Treasurer's Update. The next committee meeting will be held on November 2, 2023 at 8:00 a.m.

COMMITTEE
REPORTS
(Item 10.a.)

Community Relations Committee: Director Prest indicated discussion at the October 10th committee meeting included updates regarding Community Relations Activity, Electronic Sign for PID's Clark Road location, Website Revamp, PID Demonstration Garden, and the 5-Year Camp Fire anniversary.

There was no unfinished business to report.

UNFINISHED
BUSINESS

Assistant District Manager Mickey Rich reported PID's current website was built in-house and is maintained by PID staff. The website needs continual updating and periodic revamping and requires maintenance by someone with significant technical and programming knowledge. The proposed solution shifts the technical and security risk responsibilities, including ADA compliance, to a third party and allows PID staff to keep the site updated with easy-to-use tools. The District reached out to three firms and received two quotes from Streamline and Civic Plus. Staff is recommending the proposal from Civic Plus.

NEW BUSINESS:

WEB DESIGN &
HOSTING
SERVICES
PROPOSAL
(Item 8.a.)

If the Board is interested, Civic Plus has offered to add in the ChatBot search engine feature at no cost for the first year. The District has the option to try this feature for the first year and may then decide whether to continue the use of ChatBot.

It was moved by Director Matthews and seconded by Director Sulik to authorize the District Manager to execute an agreement with Civic Plus for Web Design and Hosting for an initial fee not to exceed \$26,281.00, year two at a cost of \$10,500.00 and subsequent annual recurring fees with an annual increase not to exceed 5%.

AYES: Directors Matthews, Sulik, Prest, and President Boston
NOES: None
ABSENT: Director Rehmann

Motion passes 4-0

JUNE 2024 BOARD
OF DIRECTORS
MEETING DATE
RESCHEDULED
(Item 8.b.)

Staff reported the regularly scheduled meeting of June 19, 2024, falls on Juneteenth, which is a PID observed holiday. Staff recommends rescheduling the June 2024 meeting to a date near the originally scheduled date.

It was moved by Director Matthews and seconded by Director Prest to approve the regularly scheduled June 2024 Board of Directors meeting be rescheduled to be held on June 17, 2024, at 8:00 a.m.

AYES: Directors Matthews, Sulik, Prest, and President Boston

NOES: None

ABSENT: Director Rehmann

Motion passes 4-0

PID RENTAL
PROPERTY
RENOVATIONS:
DIRECTION GIVEN
TO PROCEED
WITH RFP
PROCESS
(Item 8.c.)

Assistant District Manager Mickey Rich indicated the purpose of this item is to seek input and direction from the Board regarding the PID rental properties located at 6350 and 6360 Clark Road. The estimated cost projection to renovate the rental house and commercial building is roughly \$245,929.00.

Suggestions or thoughts expressed from members of the Board included: 1) Keeping the properties for potential expansion in the future; 2) Utilizing the residential property as workforce housing; 3) Seeing if a qualified person or firm is interested in renting the property and performing the renovations; 4) Concerns about being a landlord; PID is in the business of producing and delivering water; and 5) Regardless of the use, it is necessary to bring the buildings up to date.

Board direction given to PID staff to proceed with a formal Request for Proposal process regarding renovations for the two PID rental properties.

DIRECTORS'
COMMENTS
(Item 9)

Director Prest: Expressed appreciation to PID staff members Mickey Rich, Mark Cavalli, and consultant Tonya Dale with Cedar Creek for their efforts in researching information for an electronic sign.

Director Matthews: Commented on the sky in the early morning before the sun rises and noted Venus may be seen to the East.

President Boston: Acknowledged staff for their continued efforts and hard work.

ADJOURNMENT OF
MEETING

There being no further business, it was moved by President Shelby Boston to adjourn the regular meeting. The regular meeting of the PID Board of Directors was adjourned at 6:48 p.m.

Georgeanna Borrayo, Secretary

Shelby Boston, President

PARADISE IRRIGATION DISTRICT

**PIPELINE INSTALLATION
PROCEDURES AND SPECIFICATIONS**

JANUARY 1989
(UPDATED October 13, 2023)

Amendments:

10/23/2019: Replaced Divisions VIII and IX with revised Division VIII – HDPE Service Lines, (Division X re-numbered as Division IX). PID Standard Details PID-05, PID-05A, PID-06 & PID-15

09/15/2021: PID Standard Details PID-05, PID-06, & PID-15

02/15/2023: PID Standard Details PID-01, PID-02, PID-03, PID-04, PID-05, PID-M05A, PID-06, PID-07 S1 and S2, PID-08, PID-09, PID-10, PID-11, PID-15

04/19/2023: PID Standard Details PID-16, PID-17

10/13/2023: PID Standard Details PID-05, PID-15, PID-18 & general wording throughout document

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PID STANDARD DRAWINGS PID-01 TO PID-18 LOCATED AT BACK OF PACKET

DIVISION I - GENERAL REQUIREMENTS

1.01 Definition and General Information

Whenever the following words are used in these specifications or in any of the other contract documents, they shall have the meanings given herein.

- (a) The word "District" shall mean the Paradise Irrigation District, Paradise, California.
- (b) The term "Board" shall mean the Board of Directors of the Paradise Irrigation District.
- (c) The word "Manager" shall mean the manager of the Paradise Irrigation District.
- (d) The word "Contractor" shall mean:
 - 1. The person, persons, or corporation entering into contract with the District for the furnishing of material and/or the performance of work covered by these specifications, or
 - 2. Such owners and/or subdividers requesting approval of a water system project.
- (e) References to "District Standards" made in these specifications or drawings shall refer to the current applicable policies of the District. The standards described herein shall apply to all water mains installed for the District or water systems whose ownership is to be transferred to the District upon completion. On a case-by-case basis, District staff may revise standards to suit special circumstances.

1.02 Changes and Extra Work

If during progress of the work on projects contracted by the District, changes or additional work are deemed necessary by the Manager, the District shall pay the Contractor for such work in accordance with a price agreed upon in writing, prior to beginning performance of said change or additional work.

1.03 Standard Drawings

<u>Drawing Number</u>	<u>Title</u>
PID-01	Permanent End of Line Blow Off
PID-02	Thrust Block Details
PID-03	Fire Hydrant Installation
PID-04	Valve Box Detail
PID-05	Polyethylene Service Installation for ¾" to 2" Meters
PID-M05A	Adapt Existing Corp Stop (for 1" to 2" Meters)
PID-06	Double Meter Service Installation
PID-07	3" and 4" Meter Installation
PID-08	Backflow Protection – Fire Systems
PID-09	Manual Air Valve Assembly
PID-10	Air Release and Vacuum Relief Valve Assembly
PID-11	State Health Dept. Exceptions to Basic Separation Standards for Potable Water and Sewer Pipelines
PID-12	Cover, Air & Vacuum Release Valve
PID-13	Pressure Reducing Station, Typical Assembly
PID-14	Hot-Install C900 Grip Ring Restraint
PID-15	RP Installation for Domestic Connections up to 2"
PID-16	Locator Wire Splice Detail
PID-17	Valve Box Detail (Post Construction Adjustments)
PID-18	Trench Detail

DIVISION II APPLICATION, LOCATION AND RIGHTS OF WAY

2.01 Applications, Locations and Permits

- (a) Application: All requests to install distribution mains, including those for subdivisions and lot splits, will be made by Contractor or his authorized agent. Such requests shall be directed to the Manager for review and shall be accompanied by a map approved by the Paradise Fire Department for hydrant location and hydrant flow. The Board must approve all developer pipeline projects. Refer to the Paradise Irrigation District Improvement Standards for Water Systems Planning and Design for further details.

All pipeline installations shall be at the sole cost and expense of the Contractor and shall be made according to the District's specifications as hereinafter set forth and as set forth in the Rules and Regulations of the District. All new installations shall be connected to District's system at a point and in a manner designated by the District. A pre-job conference between the Contractor and District staff is required to ensure all specifications are understood.

Upon final inspection and testing, water will be turned off and will remain off until the following items have been received in the District office:

1. An as-built map showing details of the actual location of pipe, valves, etc.
 2. A cost accounting of the water project, including engineering, material labor and PID charges.
 3. A legal description of the easement to be created for the new water system.
 4. Payment of all outstanding fees and charges.
 5. A signed conveyance of pipeline and/or easement, including a two (2) year guarantee of material and workmanship.
 6. A Maintenance and Performance Bond in an amount specified in the District's Improvement Standards guaranteeing material and workmanship.
- (b) Location: Pipelines shall be located within an easement, not less than 20 feet in width, in a manner which will meet with the District's approval for the purpose of maintenance and operation in the future. Provision may be required for an extension to adjoining lands via an easement to the District for that purpose.
- (c) Permits: The Contractor shall secure from the agencies having jurisdiction, the necessary permits to create obstruction and to excavate for the pipelines as required and present evidence to the Manager that such permission has been granted before work is commenced. Regulations and requirements of all agencies concerned shall be strictly adhered to in the performance of this contract. The enforcement of such requirements under this contract shall not be made the basis for claims for additional compensation.

2.02 Access Rights-of-Way

Access roads or working space adjacent to work sites, which may be required by the Contractor, shall be arranged for and paid for entirely by the Contractor.

2.03 Interference with Traffic and Fire Hydrants

The Contractor shall conduct his operations so as not to close or obstruct any portion of any highway, road, or street, or prevent in any way free access to fire hydrants until he has secured permission to do so from the proper authorities. The Contractor shall conduct his operations so as to avoid unnecessary interference with the flow of traffic along highways and streets.

2.04 Construction Interferences

- (a) As used in this section, the word "utility" shall be understood to include tracks, overhead or underground wires, cable, pipelines, conduits, ducts, sewers or storm drains. As used in this Section, the term "service connection" shall be understood to mean all or any portion of a pipeline conduit, wire, cable or duct, including meter, between a utility distribution line and an individual customer when served by a single service connection. As used in this Section, the term "construction interference" shall be understood to include any utility or service connection within the limits of excavation or over excavation required for the work under the contract as shown or as ordered by the Manager or any utility or service connection located in the space which will be required by any of the work under the contract.
- (b) In the event any utility or service connection is required to be disturbed or removed to permit construction of a pipeline or other structure under the contract, such disturbance or removal shall be done only with the approval of the Manager and following notification to the owner of the interfering utility or service connection. Any such utility or service connection removed or otherwise disturbed shall be reconstructed as promptly as possible in its original or other authorized location in a condition at least as good as prior to such removal or disturbance, subject to the inspection of the owner of same. The Contractor's responsibility under this Section to remove or replace shall apply even in the event such damage or destruction occurs after backfilling or is not discovered until after completion of backfilling. The owner of the utility or service connection shall be notified immediately after damage or destruction occurs or is discovered.
- (c) During the performance of the work under this contract, the owner of any utility affected by the work shall have the right to enter, when necessary, upon any portion of the work for the purpose of maintaining service and of making changes in or repairs to said utility.
- (d) All costs involved in removing, relocating, protecting, supporting, repairing, or replacing a utility shall be borne by the Contractor.
- (e) The Contractor shall not be assessed liquidated damages for failure to complete the work on time to the extent that such delay was caused by failure of the District or Agency having jurisdiction over the utility to authorize or otherwise provide for its relocation, removal, protection, support, repair, maintenance, or replacement.

2.05 Separation of Utilities

The installation of other utilities in a common trench with a District water main is prohibited. No utility shall be installed directly over, or within twelve (12) inches of, any portion of the water system. No sewer line shall be placed in the same trench with a water line. The District's separation standards for water mains and sewer and septic system components are shown in **Standard Drawing PID-11**.

DIVISION III - EARTHWORK

3.01 General

The Contractor shall perform all earthwork required for the complete installation of mains and all appurtenances to the required alignment and grade.

Prior to excavation notify Underground Service Alert (USA) at 811.

3.02 Excavation

- (a) The Contractor shall furnish, place and maintain all supports and shoring that may be required in accordance with applicable State and Federal Industrial Safety Standards, and all pumping, ditching or other approved measures for the exclusion of water from any source so as to prevent damage to the work. Unless otherwise approved by the District, the maximum length of open trench in any one location shall be 500 feet.
- (b) **PIPELINE EXCAVATION**
Trenches for 6" and larger water mains shall have a width equal to the outside diameter of the pipe plus twelve (12) inches at a minimum. Contractor must follow manufacturers recommendations if wider trench is recommended. Trenches for water mains smaller than 6" may, depending upon local conditions, be narrower with District approval. The bottom of the trench shall be excavated to a depth of 4" below the bottom of the pipe and trench depth maintained deep enough to provide a minimum 36" of cover over the pipe. **See Standard Drawing PID-18**
- (c) **OVER-EXCAVATION, ORDERED**
Where, in the District's opinion, the bottom of the trench is in wet or spongy material, the District may order the Contractor to over-excavate below the specified grade and refill with aggregate bedding to the bottom of the specified sand bedding. Such over-excavation will be at the Contractor's own expense.
- (d) **OVER-EXCAVATION**
Any excavation carried below subgrade not as ordered, shall be refilled to the required grade with select material and compacted to 95 percent of maximum density. Such work shall be at the Contractor's own expense.
- (e) **DISPOSAL OF EXCESS EXCAVATED MATERIAL**
The Contractor shall remove and dispose of all excess excavated material at their own expense.

3.03 Bedding

- (a) **SAND BEDDING**
Sand Bedding shall be ¼" minus in size and meet the approval of the District and shall be placed to a depth of four (4) inches below the grade of the bottom of the

pipe. When rocky trenching conditions are encountered, over-excavation and over-sanding in compacted layers, as specified by the District, will be required.

(b) AGGREGATE BEDDING

Where required by the District and approved by the District's Engineer, aggregate bedding shall conform to the following: 1-1/2 inch maximum size aggregate bedding shall be placed in six (6) inch layers and compacted.

3.04 Backfill

(a) GENERAL

Materials used for backfill shall be selected free from vegetation. Materials coming into contact with the pipe shall also be free from rocks, boulders or broken masses of earth.

(b) BACKFILL IN TRENCHES (Note, Section 7.03 regarding pipe testing)

1. Pipe shall be back-filled to a level twelve (12) inches above the top of the pipe with imported sand in the following manner: If compaction by jetting is used, and approved by the District, pipe shall be backfilled with imported sand to the top of the pipe and jetted down, and around, the pipe to fill all voids, then a 12" lift above the pipe with water compaction by jetting. Flooding of the trench is not allowable.

2. If compaction by hand tamping is used, the pipe shall be backfilled in 4" lifts to a level 12" above the top of the pipe (See Section 6.02(d) regarding tracer wire). Mechanical compactors shall not be used on top of the pipe until a minimum of 12" of hand tamped backfill above the pipe has been completed.

3. The remaining backfill shall be placed in layers six (6) inches thick or as approved by the District or as approved by the Agency having jurisdiction.

3.05 Cutting and Restoring Street Surfaces and/or Improvements

(a) In cutting or breaking up street surfacing, the Contractor shall not use equipment that will damage adjacent pavement or other improvements. Existing paved surfaces shall be cut back beyond the edges of the trenches to form neat square cuts before repaving. All improvements damaged shall be replaced in kind or better or to specifications of the Agency having jurisdiction, at the Contractor's own expense.

(b) All valve boxes and covers within the scope of the contract shall be adjusted to grade to the satisfaction of the District. **See Standard Drawing PID-04**

DIVISION IV - CONCRETE

4.01 General

Unless otherwise provided in writing, the Contractor shall furnish all materials for concrete and mortar, and shall form, mix, place, cure, repair, finish and do all other work required to produce finished concrete structures.

4.02 Concrete Mix

The concrete mix used for all concrete required hereunder shall be composed of Portland cement and properly graded sand and rock. The proportions of cement and aggregates shall be such as to produce a workable mix with a minimum compressive strength of 3,000 psi at the age of 28 days for structures, and of 1,500 psi at the age of 28 days for pipe encasement and thrust blocks. The quantity of water used shall be just sufficient, with a normal mixing period, to produce a concrete, which, in the judgment of the District, can be worked into place without segregation.

4.03 Cement

All cement used on the work shall be a standard brand Portland cement conforming to the State of California "Specifications for Portland Cement."

4.04 Aggregates

Aggregates shall be obtained from pits approved by the District and shall conform to the State of California Standard Specifications for Concrete Aggregates. Coarse aggregate shall be of 1-1/2" maximum size.

4.05 Water

Water shall be clean and free from objectionable quantities of organic matter, alkali, salts, and other impurities.

4.06 Forms

Forms to confine the concrete and shape it to the required lines shall be used wherever necessary. Forms shall be required for all exposed concrete surfaces, including the interior surfaces of all underground structures. All forms shall be smooth. Forms shall not be removed until the District has given permission to do so.

4.07 Tamping

As concrete is placed in forms or in excavations, it shall be thoroughly settled and compacted throughout the entire depth of the layer that is being consolidated, into a dense homogeneous mass. Except in special cases where the District deems their use impracticable, the Contractor shall use high-speed internal vibrators of an approved immersion type.

4.08 Curing

All structural concrete shall be cured by being kept moist for 14 days after placing, or at the option of the Contractor, may be cured by an impervious membrane of a type approved by the District. Encasement concrete, concrete cradle and anchor blocks, if any, may be covered with earth 24 hours after placing.

4.09 Ready-Mixed Concrete

At the Contractor's option, ready-mixed concrete may be used which meets the requirements as to materials, batching, mixing, transporting and placing as specified herein and the requirements of the "State of California Specifications for Ready-Mixed Concrete." The quality and quantity of materials used in ready-mixed concrete and in batched aggregates shall be subject to inspection at the batching plant.

DIVISION V – APPURTENANCES

5.01 General

All piping and appurtenances shall be constructed using new material, acceptable to the District. C900 and C905 PVC piping shall be rated for a minimum of 235 psi (Pressure Class DR-18).

5.02 Gate Valves

Valves shall be installed at points designated by the District. Each valve shall be enclosed in a concrete valve box with cover (see 5.07), or as specified by the District.

Gate valves larger than 2" shall be equal in diameter to the pipe, or as specified, and shall meet AWWA standards. Valves shall be epoxy coated in conformance with AWWA C550. They shall have 2-inch operating nuts. If the depth from finish grade to the top of valve nut exceeds 42 inches a valve stem extension is required. The extension shall be fabricated with a 2-inch nut at a depth of 15 inches (\pm 3 inches) from finished grade.

2-inch and smaller gate valves shall be Milwaukee, Grinnell, Nibco, or equal, and shall meet AWWA standards.

5.03 Blow Offs

Blow off valves and connections of at least two (2) inch diameter shall be installed at points designated by the District and provisions made for taking care of wastewater either in gutters or easements for water runoff. Each blow off valve shall be enclosed in a suitable enclosure with lid. See **Standard Drawing PID-01**

5.04 Air Valves

A combination air release vacuum valve of at least one (1) inch shall be installed at all high points in the lines. See **Standard Drawing PID-10**. Covers for air valves shall be such that drainage will not enter valve box but will permit sufficient air to enter so as not to impair the operation of the air valve. The type of box and cover is subject to the approval of the District. See **Standard Drawing PID-12** for typical cover design. Control valves for air release vacuum valves shall be equipped with a valve box as specified in section 5.06, below.

5.05 Fire Hydrants

- (a) Requests for system extensions shall be accompanied by 4 copies of the proposed extension showing fire hydrant number and location and approved by the Paradise Fire Department.
- (b) Gate valves that serve fire hydrants shall be equal in size to the hydrant lateral and meet the requirements under section 5.02, above. They shall be equipped with a flanged connection contiguous to the main.

- (c) Hydrant lateral piping shall conform to the current District specifications.
- (d) Fire hydrants shall be those approved by the Paradise Fire Department (PFD), painted yellow per PFD specification and equipped with pentagon nuts on all hydrant valve stems. A clear and level area of 3-foot radius shall be provided surrounding the hydrant. **See Standard Drawing PID-03**

5.06 Service Laterals

Service laterals shall include all necessary pipe, valves and fittings required from the tie-in at the main to the District end of service inside the meter box and are to include the meter box with cover and customer-side shutoff valve.

5.07 Valve Boxes

Valve boxes shall be Christy G5 concrete box with cast iron lid, unless otherwise specified.

The Contractor shall bring all valve boxes and covers within the scope of the contract, both new and existing, to the appropriate finish grade and shall restore pavement surrounding the boxes to the satisfaction of the District, prior to system acceptance.

Valve boxes in the traveled way shall be set in a concrete ring of 12-inch annular width and 8-inch thickness, cast around the box, and flush with surrounding grade. Can stock shall be 8-inch corrugated plastic pipe. **See Standard Drawing PID-04**

5.08 Meter Boxes

On all services 2 inches and smaller, an appropriate size and type meter box shall be installed, set at appropriate grade, which will completely enclose the meter, the angle meter stop, and the service valve. **See Standard Drawing PID-05.**

Meters 3-inch and larger shall be installed in a utility vault. For details **see Standard Drawing PID-07**, and 5.09 below.

5.09 Utility Vaults

- (a) Underground vaults enclosing District facilities shall be reviewed and approved by PID engineering division prior to purchase and fabrication. Failure to receive the necessary prior approval shall not release the Contractor from the requirements of this section.
- (b) Underground vaults shall be steel reinforced precast concrete with a minimum wall thickness of 6 inches. The vertical distance from the top of the drain rock layer to the rim of the vault shall not exceed 60 inches.
- (c) Vaults shall be equipped with hinged full-opening spring-assisted lids. Vault lids shall meet AASHTO H-20 load rating. Lids shall be equipped with flush drop handle(s) and hold down bolts. Meter vaults lids shall be equipped with a self-closing "reading lid" centered over the meter register.

- (d) Vaults shall be of a size to allow sufficient working room around the facilities enclosed. Minimum horizontal clearances shall be maintained as shown in **Standard Drawings PID-07 and PID-13**.
- (e) All lids in parking or pedestrian areas must conform to a smooth finish grade transition to the surrounding grade. Vaults may not be installed in a traffic lane of a road.
- (f) Properly consolidated washed drain rock backfill, or other methods approved by the District, must be provided to prevent settlement of the vault.
- (g) Where extensions are used to bring valve and meter vaults up to grade, all joints shall be tightly sealed by grouting with cement.
- (h) Vaults shall have an open bottom. A minimum 12-inch depth of 3-inch drain rock is required at the bottom of the vault to promote drainage and percolation.
- (i) Maintain a minimum of 12 inches clearance below the valve or meter units.
- (j) If mechanical joint fittings are used, restraining rods through the vault wall shall be required.
- (k) Vaults shall be provided with a permanent, corrosion resistant ladder installed.

5.10 Pipe Wrap

Where wrapping of a pipeline or appurtenances is required, 20mil Calpico identified tape applied over Calpico primer or Polykln 1027, or District approved equal, shall be used.

5.11 Drop Assemblies

- (a) Drop assemblies shall be constructed using District approved materials and methods only.
- (b) Drop assemblies shall be constructed to provide mechanical thrust restraint using flanged pipe and fittings or Megalug restraints for ductile iron pipe, or mechanical joint (MJ) fittings with grip ring restraints, Romac "GripRing Pipe Restrainer" or equal for C-900 PVC pipe.
- (c) Where minimum required cover cannot be maintained at least 4 inches sand bedding above and below the pipe shall be provided. Above the sand bedding a 6-sack mix concrete cap shall be placed above the pipe, a minimum of 6 inches thick, for the full trench width, from the top of the sand to the ground surface (or pavement subgrade if in a paved area).
- (d) Stream crossings shall require special construction methods. Contact the District for details.

5.12 Bolts

Bolts and nuts used for the assembly of flanged fittings shall be zinc plated Grade 2 Steel or better.

5.13 Lead Free Materials

All materials used in construction, modification or repair of Paradise Irrigation District water supply facilities shall comply with the requirements set forth in California Assembly Bill 1953 (AB 1953). AB 1953 prohibits the introduction of any pipe, pipe or plumbing fitting, or fixture that is not lead free into a public water system, or any plumbing in a facility providing water for human consumption.

5.14 NSF 61 Certification Required

All materials used in construction, modification or repair of Paradise Irrigation District water supply facilities shall be NSF 61 certified. No chemical, material, lubricant, or product may be used in the production, treatment or distribution of drinking water, that will result in contact with the drinking water, including process media, protective materials, joining and sealing materials, pipes and related products, and mechanical devices used in treatment / transmission / distribution systems, that has not been tested and certified as meeting the specifications of NSF International / American National Standard Institute (NSF/ANSI) 61-2005 / Addendum 1.0-2005 (Drinking Water System Components - Health Effects).

5.15 Back Flow Prevention Devices

Backflow prevention is required **at every service connection**. The backflow prevention assembly shall be a reduced pressure principle (RP) assembly. The District approved assembly shall be a Wilkins 975XL2. See **Standard Drawing PID-15** for details.

DIVISION VI - INSTALLATION OF PIPING

6.01 General

- (a) TIE-IN: Tie-ins between the pipe extension and the District's system shall be made as specified in the project plans. Contractor constructed taps of District mains shall be constructed as set forth in DIVISION IX. Temporary connections may be required for pipe disinfection, flushing, and testing. (The District may elect to construct road crossings.) Costs involved in tie-ins and road crossings shall be the responsibility of the Contractor. Generally, tie-ins will be required prior to commencing pipe extension.
- (b) Pipe size and type shall be as shown on project plans. Schedule 40 PVC pipe is not permitted in District pipelines.
- (c) At all times when the work of installing pipe is not in progress, all openings into the pipe shall be tightly closed to prevent entrance of animals and foreign materials (AWWA C605). The contractor shall take all precautions to prevent the pipe from floating due to water from any source, shall assume full responsibility for any damage due to water from any source and shall restore pipe to specified condition and grade at this own expense. Any pipe that has floated shall be removed from the trench and the bedding corrected.
- (d) All piping and appurtenances shall be constructed using new material, acceptable to the District. All pipe, couplings and rubber rings shall be inspected prior to installation. All damaged or defective material shall be removed from the job site. Non-approved lubricant (which may harbor bacteria) shall not be used.
- (e) Contractor will perform field cutting and/or machining at his own expense and using his own equipment, unless otherwise specified.
- (f) Field welding of pipe joints shall conform to the requirements of the District and of the "AWWA Standards for Field Welding of Steel Water Pipe Joints." (AWWA C206)

6.02 Installation

- (a) The Contractor shall install all pipe, fittings, valves and appurtenances shown or required. All exposed piping shall be adequately supported.
- (c) The pipe sections shall be laid to true alignment, and where grade is not shown, shall have a minimum cover of 36 inches to finish grade. Bumping of the pipe in the trenches will not be permitted.
- (d) Contractor shall properly install all necessary thrust restraint. Concrete thrust blocks shall meet the requirements of Division IV - Concrete and shall comply with the minimum requirements of **Standard Drawing PID-02**. **Thrust** blocks must be cast against undisturbed soil. Concrete thrust blocks are not to be used when their placement interferes with other underground utilities. Where thrust blocks are not to be used, for whatever reason, mechanical thrust restraint must be provided. For C-900 pipe, grip ring restraints shall be used with mechanical joint (MJ) fittings. For

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ductile iron pipe, mechanical joint restraints or flanged pipe may be used. All drop assemblies must be thrust restrained by mechanical means.

- (c) Pipe shall be installed in accordance with the AWWA Standard for installation of that particular type water pipe subject to these exceptions; pipe shall not be laid using earth mounds, and to prevent accumulations of air and to enable the pipe to be drained, there shall be no high or low points where not shown on the drawings.
- (d) Non-conductive pipelines, and all service lines, shall be provided with 12 AWG solid copper wire with Type UF insulation laid along the top of the pipe. The wire shall be over the center and in contact with the full length of the pipe. The wire shall be connected to the pipe at a minimum every ten feet with duct tape. This is to provide for locating pipes in the future. Wires are to carry a continuous circuit from all extremities of the pipelines. Ends shall be terminated by connection to existing locator wires or existing metal pipes. Portions of the wire that have been exposed, for whatever reason, shall be protected from soil contact by wrapping with electrical tape (or other approved method) before placement of backfill. See **Standard Drawings PID-01, 03, 04, 05, 07, 08, 09, 10, 13, 16, 17 & 18**
- (e) Trenches shall be reasonably dry when pipe is laid. Necessary facilities, including slings, shall be provided for properly placing pipe in the trenches without damage. The bedding shall be checked for firmness and uniformity of surface before placing each pipe section in its final position for jointing. Bell holes are required at couplings to insure firm support, the full length of the pipe.

DIVISION VII-DISINFECTION, INSPECTION, TESTING, ACCEPTANCE

7.01 Disinfection

WARNING: This procedure must not be used on solvent-welded plastic or on screwed-joint steel pipe because of the danger of fire or explosion from the reaction of the joint compounds with the calcium hypochlorite.

- (a) Placing of calcium hypochlorite tablets. During construction, 5-gram calcium hypochlorite tablets shall be placed in each section of pipe and also one such tablet shall be placed in each hydrant, hydrant branch, and other appurtenance. Calcium hypochlorite tablets shall meet the requirements of AWWA Standard B-300.

Table 2 shows the number of tablets required for commonly used sizes of pipe. The adhesive used to attach the tablets to the pipe shall be approved by the District prior to use. There shall be no adhesive on the tablet except on the broad side attached to the surface of the pipe. Attach all the tablets inside and at the top of the main, with approximately equal numbers of tablets at each end of a given pipe length. If the tablets are attached before the pipe section is placed in the trench, their position shall be marked on the section so it can be readily determined that the pipe is installed with the tablets at the top.

Table 2. Number of 5g Calcium Hypochlorite Tablets Required for 25mg/l Dose.

Pipe Diameter (inches)	Pipe Length (feet)				
	13 or less	18	20	30	40
Number of 5 gram Calcium Hypochlorite Tablets *					
4	1	1	1	1	1
6	1	1	1	2	2
8	1	2	2	3	4
10	2	3	3	4	5
12	3	4	4	6	7
16	4	6	7	10	13

* Based on 3.25 grams available chlorine per tablet. Any portion of a tablet rounded to next higher number.

- (b) Chlorinating solvent weld pipe. Solvent weld pipe is no longer accepted for use in District facilities.
- (c) Filling and contact time. When installation has been completed, contractor shall fill the main with water at a rate such that water within the main will flow at a velocity no greater than 1 ft/s. Contractor shall not operate valves in the District's existing distribution system, including any hot tapped or tie valves installed during construction. Authorized District personnel must operate all valves necessary to direct water from the existing system into the pipeline extension. Precautions shall be taken to assure that air pockets are eliminated. This water shall remain in pipe for at least 48 hours. Valves shall be positioned so that the strong chlorine solution in the treated main will not flow into water mains in active service.

- (d) Chlorinating valves. During the process of chlorinating the pipelines all valves and other appurtenances shall be operated while the pipeline is filled with the heavily chlorinated water.

7.02 Inspection

- (a) A pre-job conference between the Contractor and the District staff is required to ensure all specifications are understood.
- (b) Contractor shall notify the District at least 24 hours prior to commencing any stage of the project, and prior to each required inspection.
- (c) The District shall inspect the Project:
 - 1. During Contractor constructed hot-taps and tie-ins. See Division IX
 - 2. When beginning trenching and pipe installation.
 - 3. Upon completion of the entire installation (or section thereof if approved by the District) including laterals and hydrants. This inspection must be completed prior to placement of any backfill and testing.
 - 4. Upon completion of the entire project.
 - 5. As deemed necessary during construction.
- (d) Any pipe covered before inspection and approval, shall be uncovered at the Contractor's expense, for such inspection and approval.
- (e) Inspections before or after PID normal working hours shall be charged at one and one-half (1 ½) times the ordinary rate. A two-hour minimum call-out will be charged. No inspections will be provided at any time on Saturdays, Sundays and PID observed holidays,

7.03 Testing

- (a) GENERAL Following District inspection and approval of the pipe system, or completed sections, all pipe with the exception of joints, fabricated sections and service lines shall be backfilled and the piping filled with water. Contractor shall be responsible for filling the main line with water (see 7.01). Contractor shall not operate valves in the District's existing distribution system, including any hot tapped or tie valves installed during construction. Authorized District personnel must operate all valves necessary to direct water from the existing system into the pipeline extension.

Pipeline extensions that are tied to the existing distribution system prior to testing shall be flushed and bacteria tested before hydrostatic testing. Pipeline extensions that are not connected to the existing distribution system may be hydrostatically tested first and flushing and bacteria testing conducted later.
- (b) HYDROSTATIC TESTING Paradise Irrigation District will pressure and leakage test all portions of the entire pipeline installation in accordance with AWWA Specifications (AWWA C600 for ductile iron pipe or AWWA C605 for PVC pipe).

Allowable leakage shall be as specified in the appropriate standard. PID will charge the cost of hydrostatic testing to the inspections fee for the applicable project.

The hydrostatic test shall be conducted as follows:

1. The pipeline shall first be properly filled, (flushed & bacteria tested if physically connected to the existing system,) and purged of air. All necessary precautions to avoid a cross connection shall be observed.
2. The pipeline shall be allowed to stabilize at the test pressure before beginning the test. This may require several cycles of pressurizing and bleeding trapped air prior to beginning the test.
3. 150 psi test pressure shall be applied by means of a dedicated pumping assembly for a test period of at least 2 hours. Test pressure shall not vary more than ± 5 psi for the duration of the test.
4. Test pressure shall be maintained by adding makeup water through the pressure test pump into the pipeline. The amount of makeup water added shall be accurately measured using a dedicated meter.
5. While under pressure all exposed pipe, fittings, valves, hydrants and joints shall be carefully examined for signs of leakage. Contractor shall repair all visible leaks and replace any damaged or defective pipe, fittings, valves, hydrants or joints, regardless of the volume of leakage, and the test repeated.
6. Testing allowance. Testing allowance shall be defined as the maximum quantity of makeup water that is added into a pipeline undergoing hydrostatic pressure testing, or any valved section thereof, in order to maintain pressure within ± 5 psi of the specified test pressure (after the pipeline has been filled with water and the air has been expelled). No pipe installation will be accepted if the quantity of makeup water is greater than that determined by the following formula:

$$L = \frac{SD\sqrt{P}}{148,000}$$

Where:

- L = testing allowance (makeup water) in gallons per hour
- S = length of pipe tested, in feet
- D = nominal diameter of pipe, in inches
- P = average test pressure during test in pounds per square inch (gauge)

The hydrostatic testing allowance is presented in tabular form in Table 3.

Table 3. Hydrostatic testing allowance per 1,000 feet of pipeline at 150 psi average test pressure (gallons/hour).

Pipe Diameter (inches)	Allowance (gallons/hour)	Pipe Diameter (inches)	Allowance (gallons/hour)	Pipe Diameter (inches)	Allowance (gallons/hour)
2	0.17	10	0.83	20	1.66
3	0.25	12	0.99	24	1.99
4	0.33	14	1.16	30	2.48
6	0.50	16	1.32	36	2.98
8	0.66	18	1.49	42	3.48

Contractor shall have a representative present at the time of the hydrostatic test. If a pipeline does not pass the hydrostatic test, the contractor shall find and correct the leaks and the pipeline shall be retested. Any pipeline that does not pass the hydrostatic test will not be approved for acceptance into the District system.

- (c) **BACTERIOLOGICAL TESTING** Prior to bacteriological testing, the contractor shall thoroughly flush the new main line to remove dirt and debris and reduce the chlorine concentration. Flushing shall continue until the chlorine concentration is less than 0.5 parts per million, or as directed by the District inspector. Contractor is solely responsible for proper dechlorination and disposal of flushing water. Contractor shall not operate valves in the District's existing distribution system. Authorized District personnel must operate all valves necessary to direct water from the existing system into the pipeline extension.

Upon completion of flushing, District personnel will collect water sample(s) and deliver them to a certified lab for bacteriological testing. The cost of all sampling and analysis shall be applied to the inspection costs billed to the project owner. If a sample tests positive (fails) the contractor shall be responsible for finding and correcting the source of contamination. The District will then take additional samples for analysis. Any pipeline that does not pass the bacteriological test will not be approved for acceptance into the District system.

- (d) **FLOW TESTING** After satisfactory final inspection of the pipeline extension, Paradise Fire Department will flow test any fire hydrants associated with the new pipeline to determine that flows meet the original design specifications. Should a pipeline not provide the design flow, the District will not accept the pipe into its system until the problem has been rectified between the Contractor, Owner's Engineer and Paradise Fire Department. Paradise Irrigation District will not be responsible for any damage that may occur to the new pipeline incidental to flow testing done by the Paradise Fire Department. A representative of the Contractor or Owner may be present during flow testing.

7.04 Acceptance

After the pipe has been tested to the satisfaction of the District and Paradise Fire Department the water will be turned off. After approval by the Manager and upon presentation to the District (when applicable) of a deed to the pipe system, an easement description, an accounting of total system cost, an as-built map, and also when accepted by the Board of Directors, the water will then be turned on to the pipeline for regular service.

7.05 Penalty for Unauthorized Tampering or Water Usage

Persons found to be in violation of this Section will be subject to prosecution, discontinuance of water service if applicable, or both.

(a) Penal Code References:

1. Penal Code Section 625 makes it a misdemeanor to open, or draw water from, a valve after being notified that it has been closed for a specific reason.

OR

2. Penal Code Section 498(b) makes it a misdemeanor to obtain water without payment by: diverting it without authority, tampering with the water system, making an unauthorized connection, or knowingly using such unauthorized water.

OR

3. Penal Code Section 624 makes it a misdemeanor to willfully break, dig up, obstruct or injure any pipeline or appurtenances.

(b) The penalty for a misdemeanor is a fine up to \$1,000, confinement in the County Jail up to six months, or both (Penal Code Section 19).

(c) The District intends to prosecute violators of this and any other applicable sections of the penal code.

DIVISION VIII - HDPE SERVICE LINES

8.01 Installation Standards

- (a) Material and Fittings. Copper Tubing Size (CTS) High-density Polyethylene (HDPE) will be allowed for services up to 2" in diameter.
- (b) High Density Polyethylene Pipe (HDPE) shall be manufactured in accordance with ASTM D2737. Resin used in the manufacture of the pipe shall be listed as meeting the requirements of National Sanitation Foundation (NSF) 61.
- (c) HDPE pipe shall be rated for 200 psi, SDR 9.
- (d) Size appropriate Stainless-Steel inserts shall be used wherever compression fittings are used.
- (e) Unless otherwise specified or approved by the District, compression fittings (Ford Meter Box Company or OWNER approved equal) are to be used for connecting HDPE tubing to other appurtenances. Pack joint fittings are not allowed.
- (f) An approved tubing cutter shall be used to prepare HDPE tubing for fitting attachment. Any other cutting method, such as knife and hacksaw cuts, will not be allowed. Ream pipe ends and clean chips and burrs after cutting.
- (g) All material is to be stored in a clean, dry location, away from contaminants or corrosive materials.

8.02 Installation

- (a) Connections (2-inch and smaller) to water mains are to be made at an angle of 0° above the spring line of the main from the horizontal. See **Standard Drawing PID-05 and/or PID-05A**.
- (b) Unless otherwise specified by the District, the order of connections shall be followed as shown in **Standard Drawing PID-05 and PID-05A**.
- (c) Only clean, select backfill is to be used, free from rocks and roots or any object that may cause a puncture or deformation in the tubing.
- (d) Service lines shall be laid at right angles to the water main and run directly to the meter box or termination point selected by the District.
- (e) A 12 AWG solid copper tracer wire with type UF insulation shall be installed per Standard Detail PID-05. Tracer wire shall be placed so as not to interfere with the function of the corporation stop. Tracer shall be attached at a 3 ft interval with a minimum of 1 full wrap of duct tape.
- (f) Following installation and before backfill is placed, fill service lateral with water and wait 5 minutes to see if fittings show any visual sign of leakage. This shall be observed by the District staff or their designated representative.

8.03 Cleaning and Disinfection

- (a) Before disinfecting, clean all foreign matter from pipe.
- (b) Flush pipelines with potable water until clear of suspended solids and color. Provide hoses, temporary pipes, ditches, and other conduits as needed to dispose of flushing water without damage to adjacent properties.
- (c) Disinfecting Procedure: Spray or swab interior of pipe and fittings with disinfecting solution following flushing procedure.
- (d) Disinfecting Solutions: Minimum free chlorine concentration of 100 ppm.
- (e) A water quality sample shall be taken following flushing of the line to ensure that chlorine residual is present before capping the service lateral. This result shall be documented and submitted to the District for each service lateral installed.

8.04 Parts Specification

PIPE: Copper Tubing Size (CTS) HDPE pipe, CenFlo (or District approved equal) meeting ASTM D2737 CTS, rated for 200 psi, SDR 9, size-appropriate stainless-steel inserts.

FITTINGS: *Note: All fittings must meet lead-free requirements and be Copper Tubing Size (CTS).*

Ford Meter Box Company

Curb Stop FIP X FIP

- 1" B11-444
- 1.5" B11-666
- 2" B11-777

Ballcorp Style

Corporation Stop MIP x COMP

- 1" FB1100-4-Q
- 1.5" FB1100-6-Q
- 2" FB1100-7-Q

Adaptor MIP X COMP

- 1" C14-44-Q
- 1.5" C14-66-Q
- 2" C14-77-Q

Reducer Coupling FIP

- .75" X 1" C11-43

Coupling FC x FIP

- .75" X 1" C01-34

Romac Industries

Service Saddle Style 202S

Tap Clamp Style CL1

Brass MIP plugs .75", 1", 1.5" and 2"

PVC MIP plugs .75", 1", 1.5" and 2"

DIVISION IX – CONTRACTOR CONSTRUCTED TAPS ON DISTRICT MAINS

9.01 General

- (a) **TAPS ON DISTRICT MAINS ARE ONLY TO BE CONSTRUCTED WITH THE DISTRICT INSPECTOR IN ATTENDANCE.** Failure to comply with this requirement will result in possible penalties under the terms of the contract.
- (b) Taps and ties on District mains may only be constructed by contractors under contract with Paradise Irrigation District. Taps and ties for projects constructed by contractors under contract to a developer shall be constructed by PID on a work order basis.
- (c) This specification applies to taps from 4 - 12 inches in diameter constructed on mains 4-inch diameter and larger. Mains over 12 inches in diameter may require special conditions not covered by this specification. Contact District for details.
- (d) Tapping machine shall be Mueller CL-12 or District approved equal. Electrically powered units will not be approved.
- (e) Leaks in the saddle-gate valve assembly will not be accepted. In the event that the saddle and/or gate valve leak following completion of the tap, the District will shut down the main and construct the necessary repairs, at contractor's expense.
- (f) Leaks in the existing main, within the construction limits, that occur following the beginning of contractor's activities will be repaired by the District at Contractor's expense.

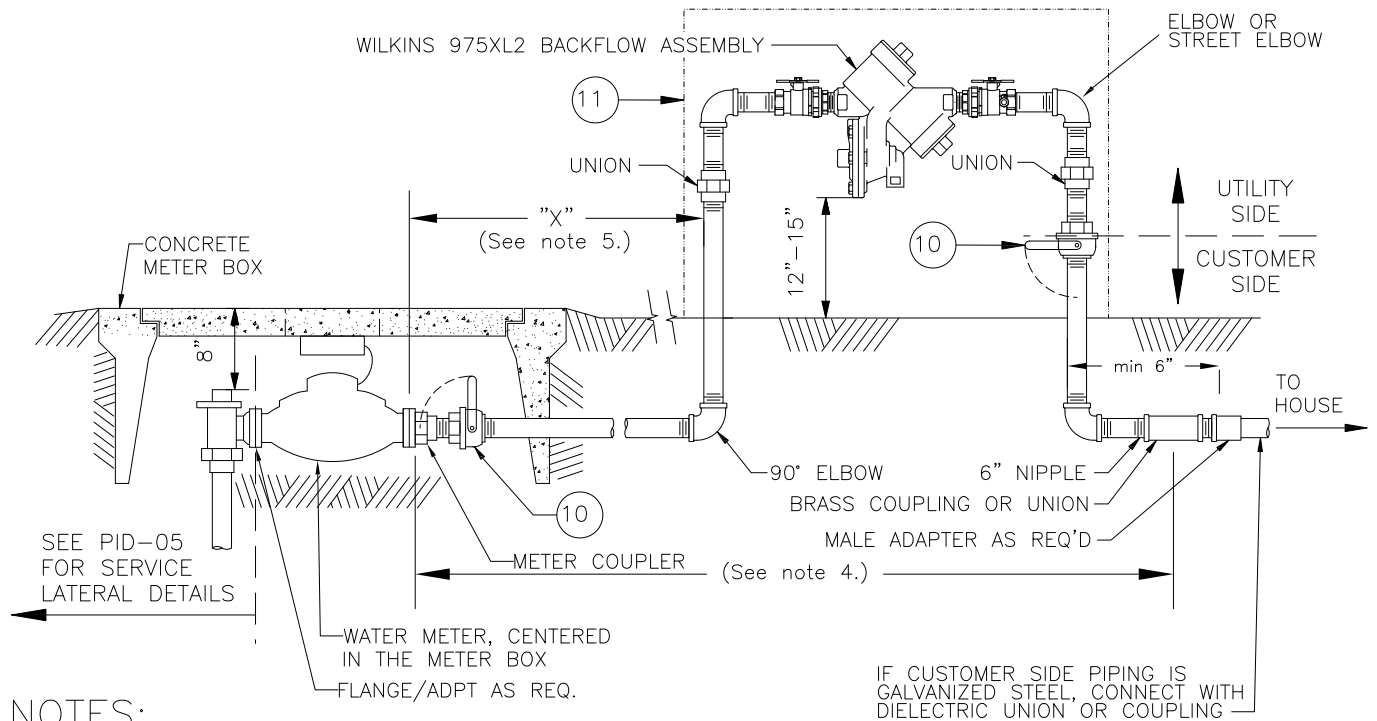
9.02 Construction

- (a) Contractor shall pothole existing main to verify size and type of existing pipe.
- (b) The existing main shall be scrupulously cleaned and pipe coating shall be removed over a sufficient section to permit proper installation of tapping sleeve.
- (c) Tapping sleeve shall be installed to manufacturer's specifications. Teflon washers shall be installed as specified and bolts shall be tightened to sleeve manufacturer's specification using a TORQUE WRENCH.
- (d) Tapping sleeve shall be installed with flanged outlet plumb to a tolerance not to exceed 1/4-inch horizontal per foot vertical.
- (e) Pressure test tapping sleeve and gate valve assembly before tapping. Assembly shall be pumped to 150 psi with clean air. A pressure gauge shall indicate no pressure drop for a test period of at least 5 minutes. During this time period a soapy water solution shall be applied to the exterior of the assembly and observed for leaks. The tap shall not be performed until all leaks have been stopped.
- (f) Tapping sleeve, gate valve interior and tapping machine cutter assembly shall be clean and free of dirt and debris. Spray interior of sleeve and gate valve and tapping machine cutter head with 1% chlorine solution prior to performing tap.
- (g) Following completion of the tap the coupon shall be submitted to District inspector.

- (h) Pipe coating material shall be repaired on all exposed areas of the existing main. See Section 5.10, Pipe Wrap.
- (i) A thrust block shall be cast behind the main at the location of the tap. The thrust block shall comply with the requirements shown in **Standard Drawing PID-02** and DIVISION IV – CONCRETE.

9.03 Material Specifications

- (a) Tapping sleeve shall be stainless steel with ductile iron flange, Romac SST or equal.
- (b) Gate valve shall be full port resilient wedge type. See Section 5.01.



NOTES:

1. BACKFLOW PREVENTION REQUIREMENTS APPLY AT EACH SERVICE CONNECTION. CONTACT PID FOR QUESTIONS REGARDING BACKFLOW PREVENTION INSTALLATION AND POLICY REQUIREMENTS.
2. BACKFLOW PREVENTION ASSEMBLY SHALL BE A REDUCED PRESSURE PRINCIPLE (RP) ASSEMBLY CERTIFIED BY USC FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH. ASSEMBLY SHALL BE LOW LEAD IN COMPLIANCE WITH NSF 61, WILKINS 975XL2.
3. NO TAPS/ CONNECTIONS ARE PERMITTED ON THE UTILITY SIDE OF THE BACKFLOW PREVENTION ASSEMBLY. BACKFLOW PREVENTION ASSEMBLY TEST COCKS SHALL BE USED FOR TEST PURPOSES BY CERTIFIED PERSONNEL ONLY.
4. ALL PIPING AND FITTINGS SHALL BE BRASS AND MECHANICALLY JOINED. UNIONS SHALL BE INSTALLED ON VERTICAL RISERS.
5. DISTANCE "X" SHALL BE KEPT TO A MINIMUM. IF "X" EXCEEDS 12 INCHES THE SERVICE LINE SHALL BE ENCASED IN SCHEDULE 40 GALVANIZED PIPE WITH MINIMUM ANNULAR SPACE, FROM THE METER BOX TO THE POINT WHERE THE PIPE LEAVES THE GROUND.
6. UPON COMPLETION OF INSTALLATION AND PRIOR TO RECEIVING SERVICE THE BACKFLOW PREVENTION ASSEMBLY MUST PASS FUNCTIONAL TESTING PERFORMED BY A DISTRICT APPROVED CA-NV AWWA CERTIFIED BACKFLOW PREVENTION ASSEMBLY TESTER.
7. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED IN DIRECT ALIGNMENT TO THE FLOW OF METER ORIENTATION. INSTALLATION OF A BACKFLOW PREVENTION ASSEMBLY PERPENDICULAR TO THE FLOW OF METER ORIENTATION SHALL ONLY BE ALLOWED UPON PRIOR APPROVAL BY PID. IF PERPENDICULAR ORIENTATION IS APPROVED SWING JOINT MAY BE USED, FITTINGS SHALL BE KEPT TO A MINIMUM.
8. BODY OF BACKFLOW PREVENTION ASSEMBLY SHALL BE LEVEL SO THAT NO BACK PRESSURE IS APPLIED ON EITHER INTERNAL CHECK VALVES. ADJUST VERTICAL RISERS AS NEEDED TO ACHIEVE THIS.
9. THE BOTTOMMOST PORTION OF THE BODY OF THE BACKFLOW PREVENTION ASSEMBLY SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 15" ABOVE GRADE.
10. BALL VALVE 10 SHALL BE BRASS LEAD-FREE, WATTS LFFBV-3C OR EQUAL. BALL VALVE IN METER BOX SHALL BE INSTALLED WITH HANDLE IN THE CLOSED POSITION FACING UP. BALL VALVE ON RISER OF BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED WITH HANDLE IN THE CLOSED POSITION FACING THE INSIDE OF THE BACKFLOW PREVENTION ASSEMBLY.
11. A FROST PROTECTION BAG SHALL BE INCLUDED AS PART OF THE INSTALLATION OF THE BACKFLOW PREVENTION ASSEMBLY. B&E SECURITY COVERS 24"x24" INSULATION COVER (SC2424 OR EQUAL) FOR 1" BACKFLOW PREVENTION ASSEMBLY, 36"x24" (SC3624 OR EQUAL) FOR 1.5" AND 2" BACKFLOW PREVENTION ASSEMBLIES. SUBSTITUTIONS MAY BE MADE WITH PRIOR PID APPROVAL.
12. CUSTOMERS PIPING SHALL EXTEND COMPLETELY INTO THE GROUND TO PROVIDE NECESSARY SUPPORT FOR THE BACKFLOW ASSEMBLY.



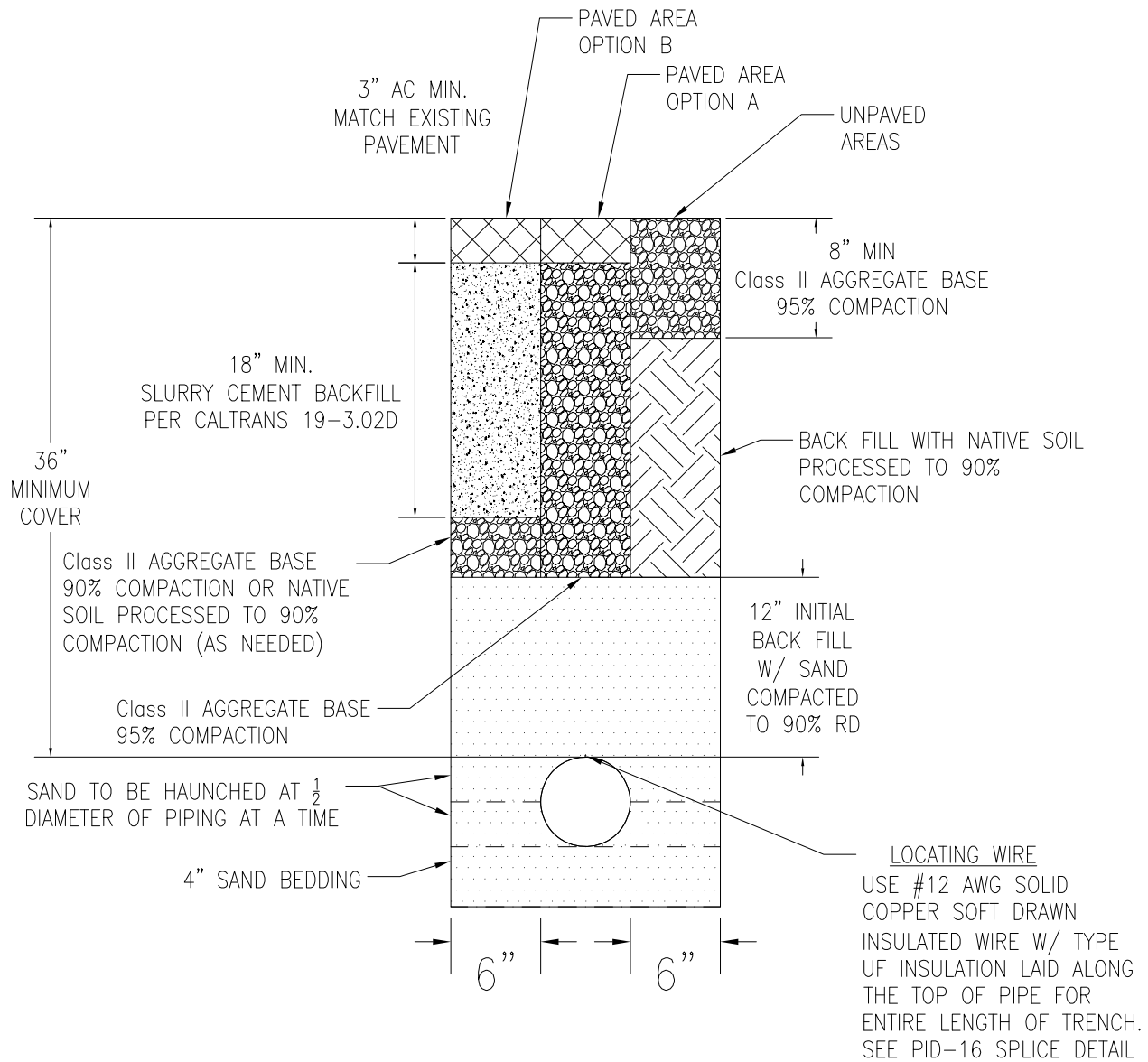
PARADISE IRRIGATION DISTRICT STANDARD DRAWING

**RP INSTALLATION FOR DOMESTIC
CONNECTIONS UP TO 2"**
(FOR DISTRICT OWNED BACKFLOW PREVENTION DEVICES)

PID-15
SHEET 1 OF 1

DRAWN BT CHECKED BA
DATE
NOVEMBER 2023
NO SCALE

TRENCH DETAILS



PARADISE IRRIGATION DISTRICT STANDARD DRAWING

BACK FILL AND BEDDING DETAIL

Agenda Page 37

PID-18
SHEET 1 OF 1

DRAWN
BA
CHECKED
BT
DATE
OCTOBER 2023
NO SCALE

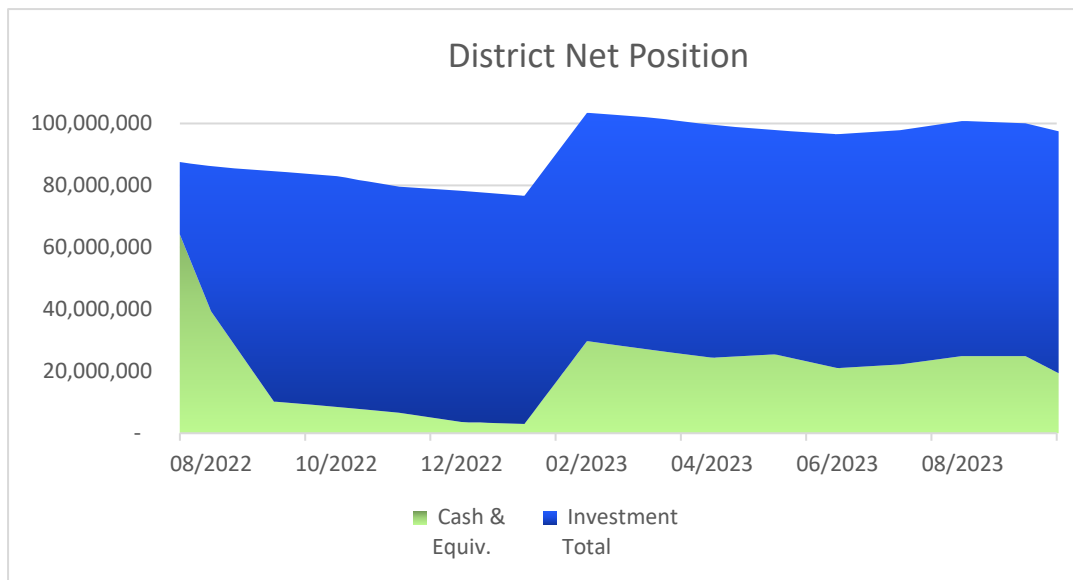


Paradise Irrigation District

6332 Clark Rd, Paradise, CA 95969 · 530-877-4971 · Fax: 530-876-0483 · www.pidwater.com

Treasurer's Report – October 2023

1. **Cash & Investments** – As of month end the District's net position was \$95,191,469, down 4.8% from last month due to recovery project spending.
 - a. Cash holdings at Tri Counties Bank: \$1,817,020 @ 3.441%
 - b. Cash holdings at CA CLASS: \$11,501,363 @ 5.5144%
 - c. Cash holdings at LAIF: \$2,615 @ 3.67%
 - d. Cash holdings at Meeder Investments: \$1,120,311 @ 5.24%.
 - e. Securities holdings at Meeder Investments: 80,750,160 @ 4.00%



2. **Debt Service** – As of month end the District's outstanding debt was \$1,423,765. This fiscal year, the District will pay \$44,867 in interest.
 - a. 2017 Refinance Loan (Truist): \$307,670 at 2.28%
 - b. 2016 Refinance Loan (Capital One): \$ - - , paid off 10/23/2023
 - c. 2007 Magalia Bypass Loan (iBank): \$1,053,095 at 1.00%

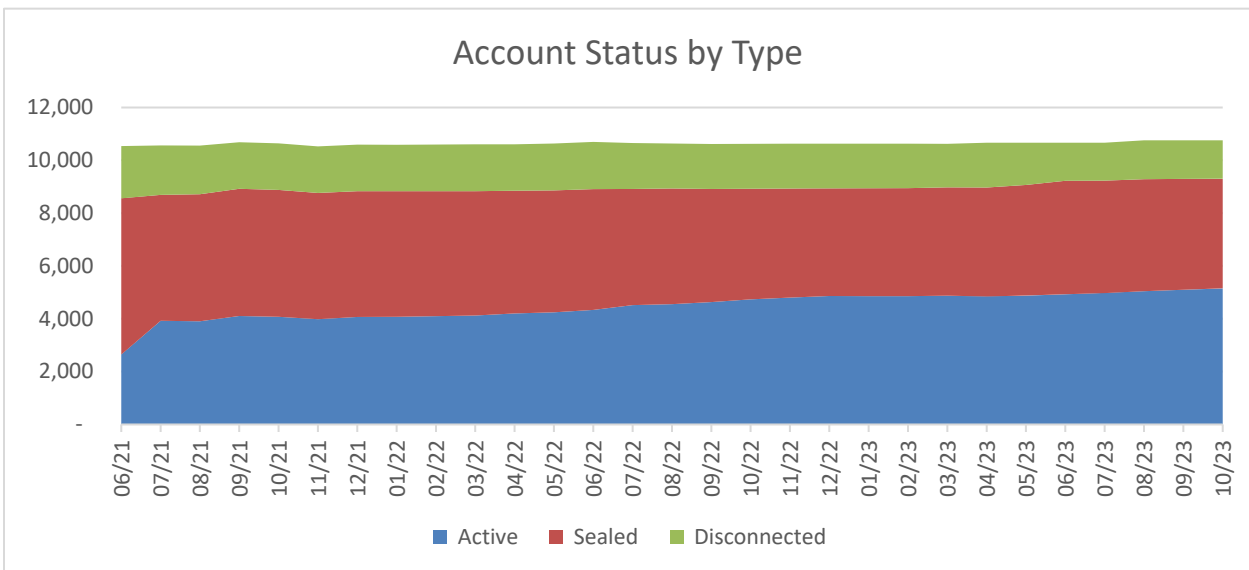
3. **Revenues** – As of month end the District's total income recognized YTD was \$7.1M.

a. <u>Operating Income</u>	<u>YTD</u>	<u>BUDGET</u>
Water Service, Fees, & Consumption	\$ 1430,653	\$ 5,310,232
Installations and Custom Work	\$ 138,297	\$ 66,000
Total Operating Income	\$ 1,568,949	\$ 5,376,232
b. <u>Investment Income (Cash Basis)</u>	<u>YTD</u>	<u>BUDGET</u>
Interest Income	\$ 1,131,216	\$ 2,600,000
Realized Investment Gain/Loss	\$ 3,012	\$ - 0 -
Total Investing Income	\$ 1,134,228	\$ 2,600,000

3. Revenue (continued)

c. <u>Recovery / Misc. Income</u>	<u>YTD</u>	<u>BUDGET</u>
Reimbursements	\$ 70,017	\$ 273,000
Miscellaneous & Other	<u>\$ 12,126,040</u>	<u>\$ 57,300,000</u>
Total Recovery / Misc. Income	\$ 12,197,057	\$ 57,573,000

d. Customer Status:		
Active Customers	5,149	\$ 226,453 monthly revenue
Sealed Customers	4,149	\$ 91,237 monthly revenue
Disconnected	1,459	



4. Expenses –

<u>Operating Expenses by Department</u>	<u>YTD</u>	<u>BUDGET</u>
Source of Supply & Treatment	\$ 592,829	\$ 2,438,000
T & D and Customer Service	\$ 1,019,882	\$ 2,973,000
Administration	<u>\$ 666,780</u>	<u>\$ 2,331,000</u>
Total Operating Expense	\$ 2,279,491	\$ 7,742,000

5. Capital & Recovery –

Active projects include:

- 1) Reservoir B Tank Replacement
- 2) MISLR 2
- 3) MISLR 3
- 4) Zone A Pipeline
- 5) Magalia Dam
- 6) WTP Equalizer Tank

Staff is actively seeking grants and funding opportunities for electric vehicle charging, solar photovoltaic panels, and water conservation programs.

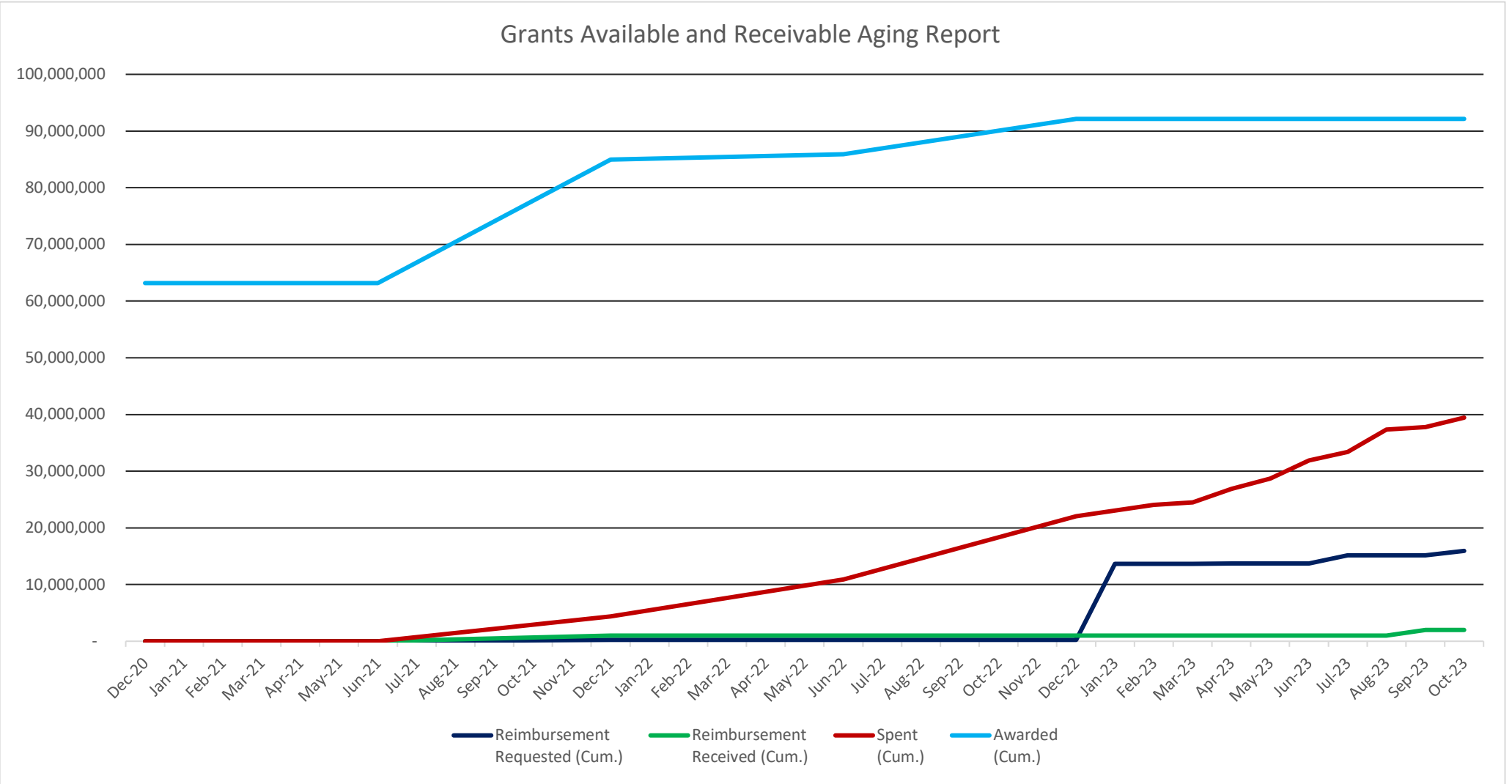
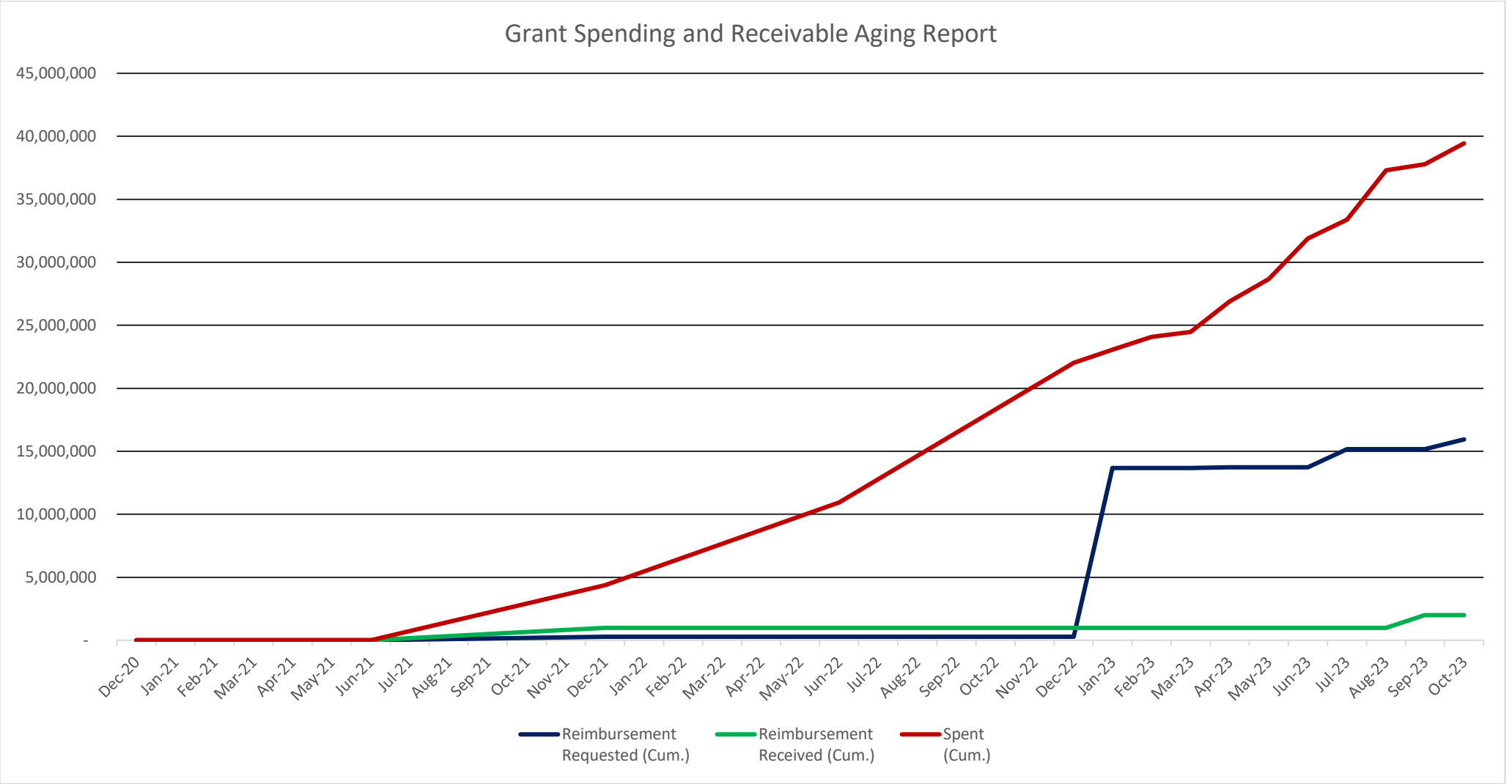
Our water. Our future.

Summary of reported projects

Period	Reimbursement Requested (Cum.)	Reimbursement Received (Cum.)	Spent (Cum.)	Awarded (Cum.)	Notes
Dec-20	-	-	-	63,178,683	
Jun-21	-	-	-	63,178,683	
Dec-21	273,890	987,247	4,361,572	84,966,100	
Jun-22	276,800	989,212	10,929,175	85,882,703	
Dec-22	276,800	989,212	22,030,421	92,142,018	
Jan-23	13,677,826	989,212	23,047,637	92,142,018	
Feb-23	13,677,826	989,212	24,070,452	92,142,018	
Mar-23	13,677,826	989,212	24,482,462	92,142,018	
Apr-23	13,732,984	989,212	26,887,635	92,142,018	
May-23	13,732,984	989,212	28,671,464	92,142,018	
Jun-23	13,732,984	989,212	31,877,698	92,142,018	
Jul-23	15,166,975	989,212	33,375,328	92,142,018	
Aug-23	15,166,975	989,212	37,314,591	92,142,018	
Sep-23	15,166,975	1,994,388	37,769,082	92,142,018	
Oct-23	15,940,105	1,994,388	39,442,046	92,142,018	

Projects being reported

Project	Reimbursement Requested (Cum.)	Reimbursement Received (Cum.)	Spent (Cum.)	Awarded (Cum.)	Notes
MISLR	13,401,026	802,372	28,318,696	61,558,108	
Reservoir B	-	-	9,021,166	21,787,417	
Zone A	1,596,845	1,126,773	2,469,540	6,259,315	
Magalia Dam	942,234	636,008	952,822	2,537,178	





QUICK SUMMARY DASHBOARD

For the Period Ending 10/31/23

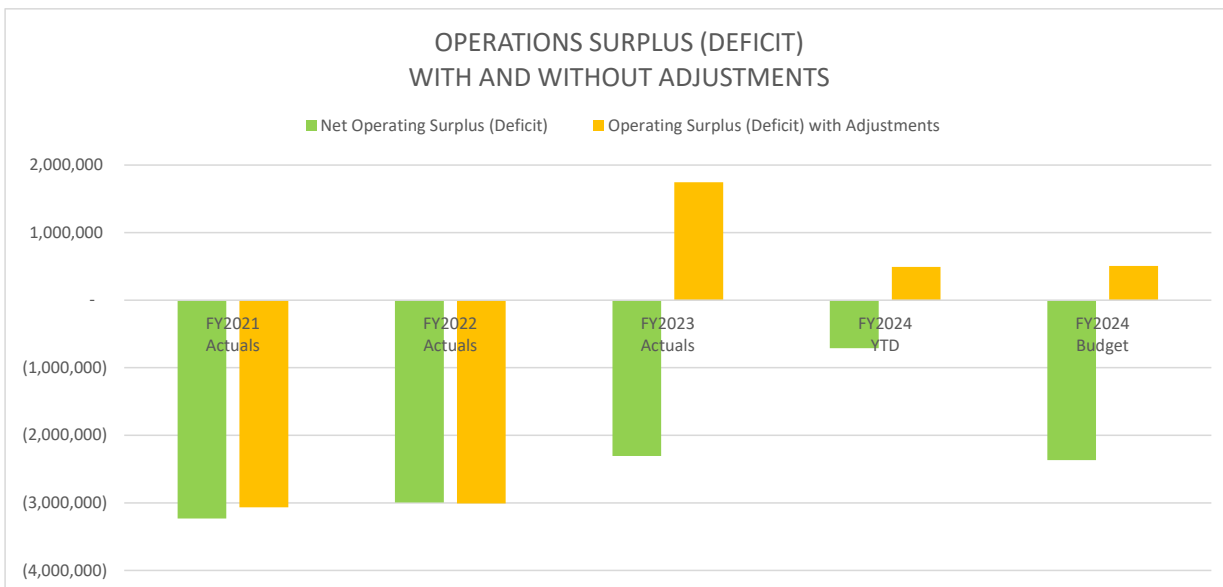
	Fiscal YTD	Budget
Operating Income		
Water Service, Fees, & Consumption	\$ 1,430,653	\$ 5,310,232
Installations and Custom Work	\$ 138,297	\$ 66,000
Total Operating Income	\$ 1,568,949	\$ 5,376,232
Investment Income		
Interest Income	\$ 1,131,216	\$ 2,600,000
Rental Income	\$ 3,012	\$ -
Total Investment Income	\$ 1,134,228	\$ 2,600,000
Recovery / Misc. Income		
Grant Income	\$ -	\$ -
Reimbursements	\$ 70,017	\$ 273,000
Miscellaneous & Other	\$ 12,126,040	\$ 57,300,000
Total Recovery / Misc. Income	\$ 12,196,057	\$ 57,573,000
Total Income	\$ 14,899,234	\$ 65,549,232
Operating Expense		
Source of Supply & Treatment	592,829	\$ 2,438,000
Transmission & Distribution and Meter Shop	\$ 1,019,882	\$ 2,973,000
Administration	\$ 666,780	\$ 2,331,000
Total Operating Expense	\$ 2,279,491	\$ 7,742,000
Recovery Expense		
Materials, Supplies, Contracts	\$ 6,836,456	\$ -
Outside Services	\$ 1,102,066	\$ -
Total Recovery Expense	\$ 7,938,522	\$ -
Total Expense	\$ 10,218,013	\$ 7,742,000
Net Gain (Loss)	\$ 4,681,221	\$ 57,807,232
Cash & Equivalents	\$ 14,441,309	
Investment Portfolio Cost	\$ 80,750,160	
Portfolio Yield	4.00%	

Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
District Operations						
Operating Income	3,804,279	4,664,521	4,953,280	1,568,949	5,376,232	71%
Source of Supply Total:	17,969	251,189	55,310	28,416	250,000	89%
Water Treatment Total:	1,238,662	1,318,893	1,718,967	564,413	2,188,000	74%
Transmission and Distribution Total:	2,496,577	2,692,238	2,759,613	841,305	2,395,000	65%
Customer Service / Meter Shop Total:	311,476	330,712	501,931	178,577	578,000	69%
Administration Total:	2,972,166	3,066,015	2,222,553	666,780	2,331,000	71%
Operating Expense	7,036,850	7,659,047	7,258,374	2,279,491	7,742,000	71%
Net Operating Surplus (Deficit)	(3,232,571)	(2,994,526)	(2,305,094)	(710,542)	(2,365,768)	
Interest Income	(52,878)	(14,962)	1,630,903	1,131,216	2,600,000	56%
Reimbursements	219,507	0	2,419,635	70,017	273,000	74%
Operating Surplus (Deficit) with Adjustments	(3,065,942)	(3,009,488)	1,745,444	490,690	507,232	

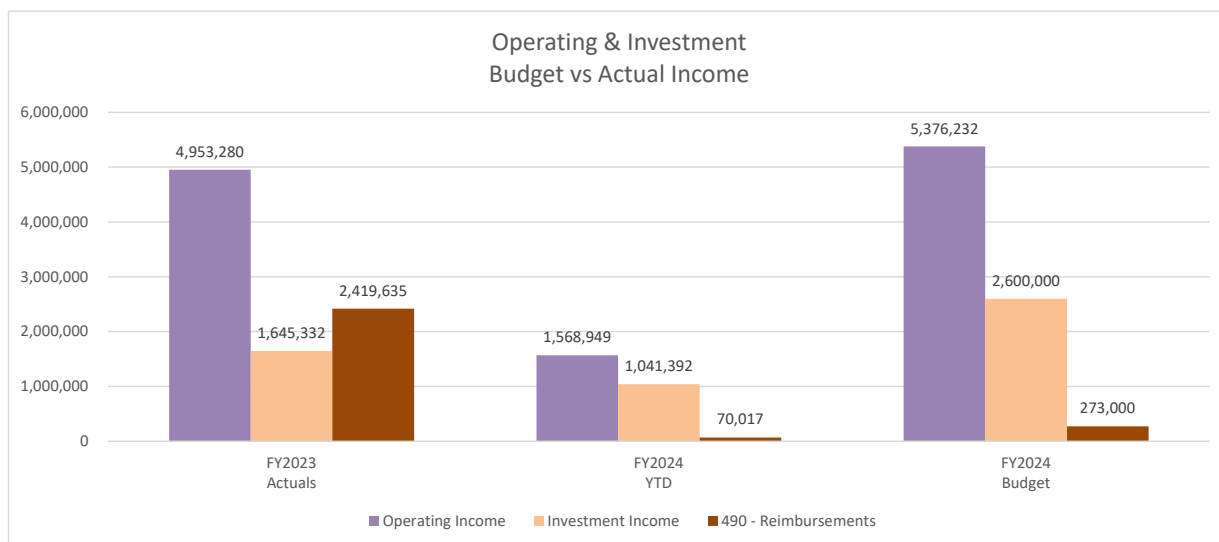


Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 00 - Revenue						
400 - Taxes - PID Share	317,000	288,006	184,088	-174,362	330,000	153%
401 - Water - Service	3,034,810	3,758,352	4,158,838	1,107,243	4,135,232	73%
402 - Water - Consumption	(44)	0	128,971	358,802	460,000	22%
403 - Water - Fees & Adjustments	(2,408)	30,005	147,384	77,151	160,000	52%
405 - Outside Water Sales	126,556	214,169	209,756	61,817	225,000	73%
425 - Non-Recurring Services	328,365	373,989	124,243	138,297	66,000	Over
<i>Operating Income</i>	<i>3,804,279</i>	<i>4,664,521</i>	<i>4,953,280</i>	<i>1,568,949</i>	<i>5,376,232</i>	<i>71%</i>
460 - Interest Income	(52,878)	(14,962)	1,630,903	1,131,216	2,600,000	56%
465 - Rental Income	21,416	22,652	14,429	3,012	0	
475 - Investment Gain/Loss	21,416	22,652	-984,668	-92,836	0	
<i>Investment Income</i>	<i>(31,462)</i>	<i>7,690</i>	<i>1,645,332</i>	<i>1,041,392</i>	<i>2,600,000</i>	<i>60%</i>
470 - Grant Income	0	1,360	0	0	0	
490 - Reimbursements	219,507	0	2,419,635	70,017	273,000	74%
495 - Grant Reimbursements	5,443,911	12,880,241	738,894	1,005,176	45,300,000	98%
499 - Other	9,766,341	120,739,779	1,344,932	11,120,864	12,000,000	7%
<i>Recovery / Misc. Income</i>	<i>15,429,759</i>	<i>133,621,380</i>	<i>4,503,461</i>	<i>12,196,057</i>	<i>57,573,000</i>	<i>79%</i>
Total Revenue:	19,223,992	138,316,243	10,117,406	14,806,398	65,549,232	77%



400 - Taxes - PID Share
 401 - Water - Service
 402 - Water - Consumption
 403 - Water - Fees & Adjustments
 405 - Outside Water Sales
 425 - Non-Recurring Services
 460 - Interest Income
 465 - Rental Income
 475 - Investment Gain/Loss
 470 - Grant Income
 490 - Reimbursements
 495 - Grant Reimbursements
 499 - Other

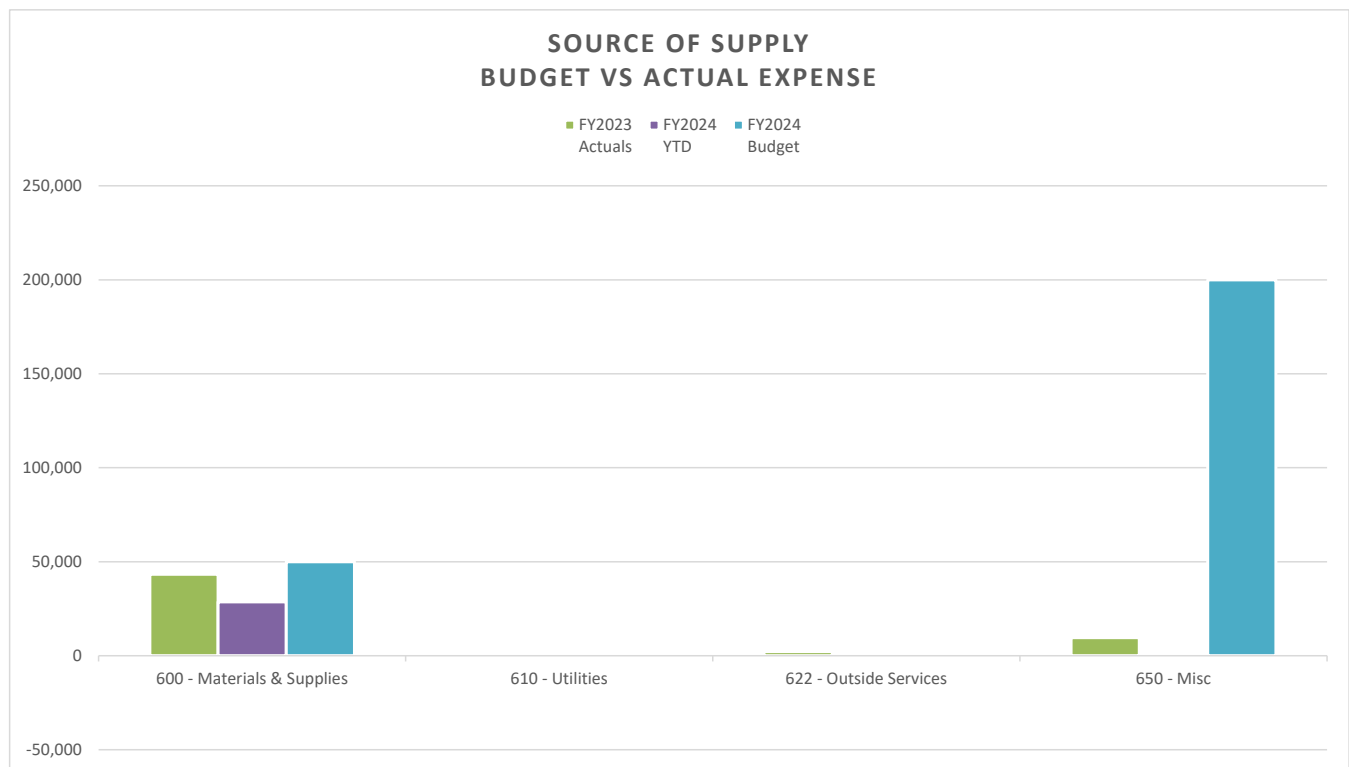
Includes revenues distributed by Butte County for property tax assessments and liens.
 Includes revenues for monthly service fees for hydrant, business, irrigation, and residential meters.
 Includes revenues for metered water consumption.
 Includes revenues for penalties, fines, and fees.
 Includes revenues for water sales to other agencies.
 Includes revenues for service installs, upgrades, repairs, and other misc. work.
 Includes revenues earned from investments and savings.
 Includes revenues (net) earned from rental properties.
 Includes revenues from realized and unrealized investment activity.
 Includes revenues from awarded grants that are not reimbursements.
 Includes revenues from contracts, damage repairs, and small insurance claims.
 Includes revenues from requested expenditures of grant funds.
 Includes revenues from settlements and all other sources that are nonrecurring.

Paradise Irrigation District

Treasurer's Report October 31, 2023

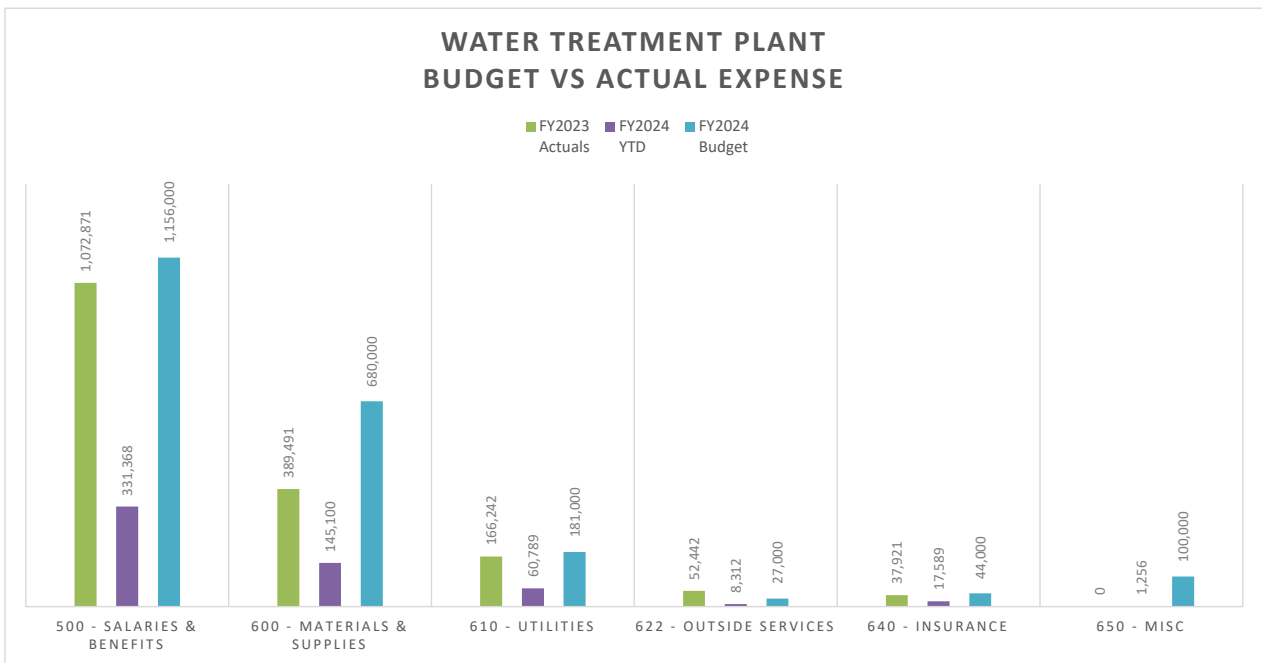
Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 10 - Source of Supply						
600 - Materials & Supplies	3,160	3,875	43,364	28,646	50,000	43%
610 - Utilities	0	0	176	71	0	
622 - Outside Services	1,259	46,757	2,138	332		
650 - Misc	13,550	200,557	9,633	-633	200,000	100%
Total Expense:	17,969	251,189	55,310	28,416	250,000	89%



Paradise Irrigation District
Treasurer's Report October 31, 2023
Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 30 - Water Treatment						
500 - Salaries & Benefits	982,404	1,012,944	1,072,871	331,368	1,156,000	71%
600 - Materials & Supplies	201,222	250,351	389,491	145,100	680,000	79%
610 - Utilities	514	5,127	166,242	60,789	181,000	66%
622 - Outside Services	13,776	15,625	52,442	8,312	27,000	69%
640 - Insurance	36,102	34,846	37,921	17,589	44,000	60%
650 - Misc	4,644	-	0	1,256	100,000	99%
Total Expense:	1,238,662	1,318,893	1,718,967	564,413	2,188,000	74%

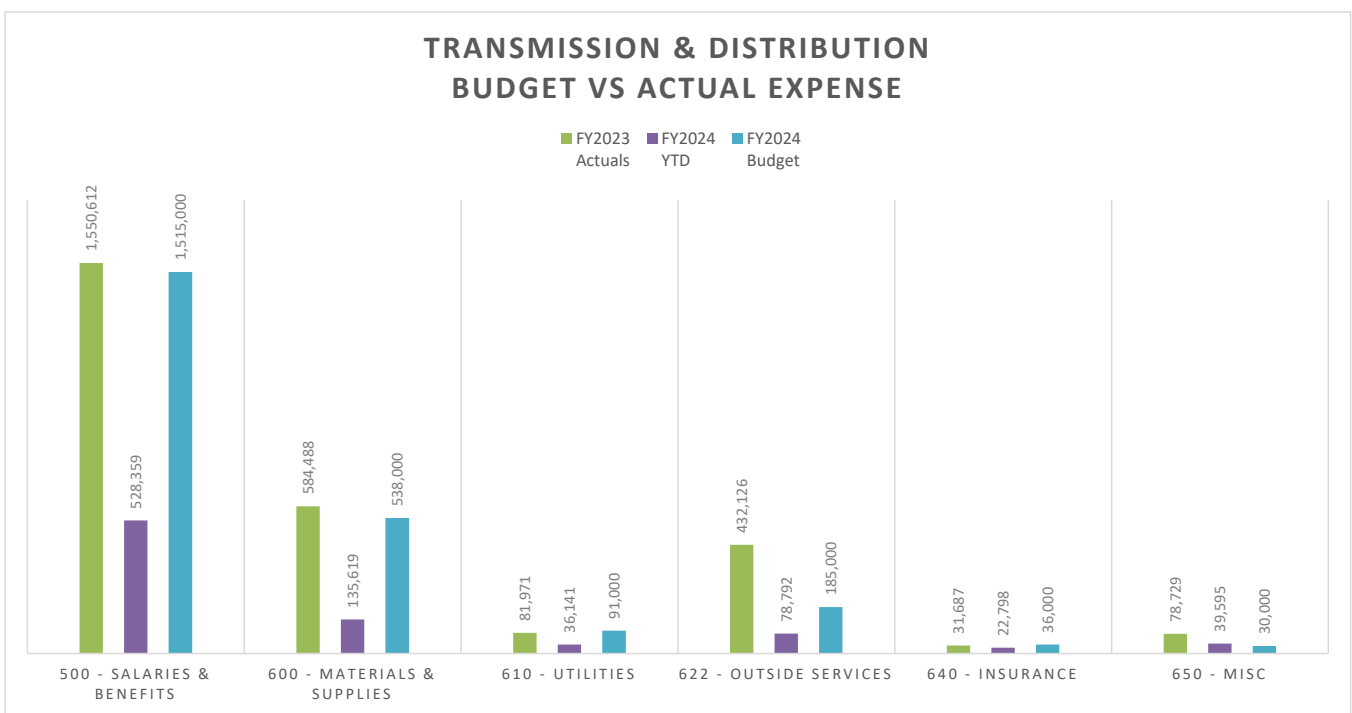


Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 40 - Transmission & Distribution						
500 - Salaries & Benefits	1,257,362	1,429,522	1,550,612	528,359	1,515,000	65%
600 - Materials & Supplies	614,244	685,034	584,488	135,619	538,000	75%
610 - Utilities	31,119	18,062	81,971	36,141	91,000	60%
622 - Outside Services	513,181	493,029	432,126	78,792	185,000	57%
640 - Insurance	29,279	28,261	31,687	22,798	36,000	37%
650 - Misc	51,392	38,330	78,729	39,595	30,000	Over
Total Expense:	2,496,577	2,692,238	2,759,613	841,305	2,395,000	65%

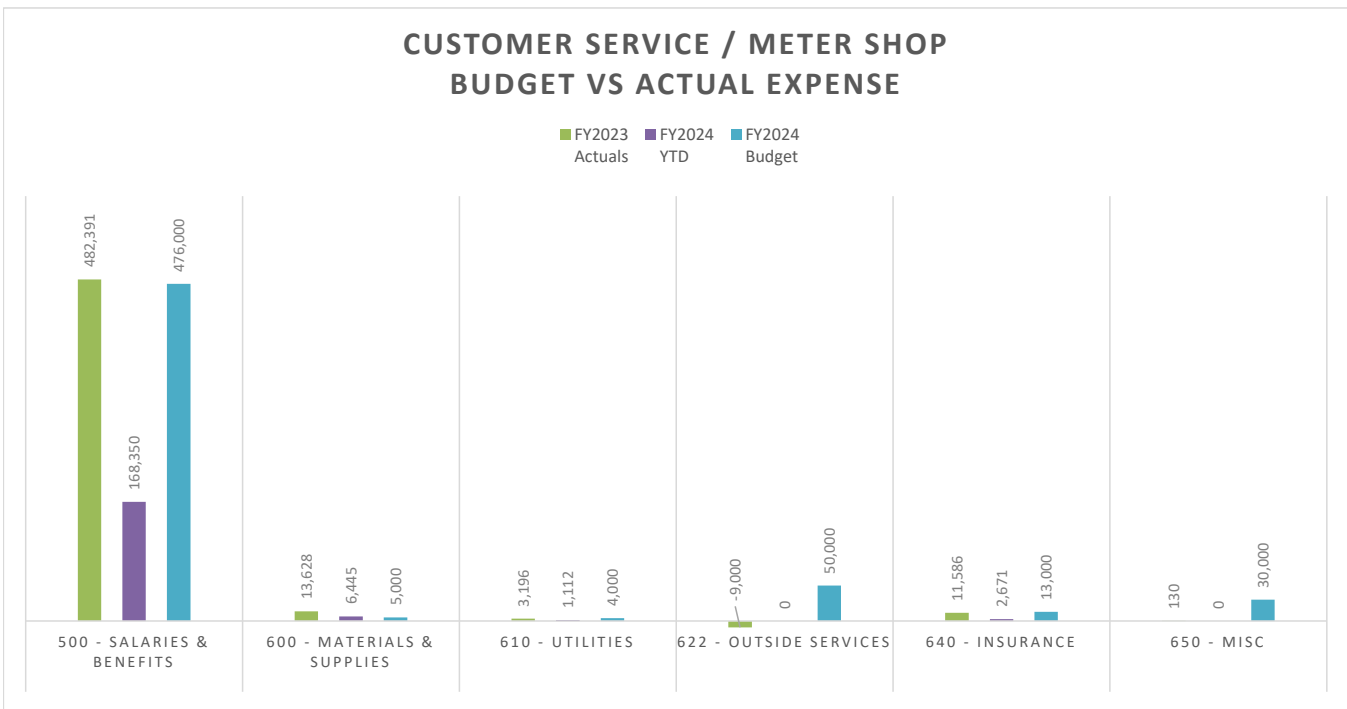


Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 50 - Customer Service / Meter Shop						
500 - Salaries & Benefits	290,613	295,789	482,391	168,350	476,000	65%
600 - Materials & Supplies	692	8,901	13,628	6,445	5,000	Over
610 - Utilities	0	3,000	3,196	1,112	4,000	72%
622 - Outside Services	9,233	12,463	-9,000	0	50,000	100%
640 - Insurance	10,938	10,559	11,586	2,671	13,000	79%
650 - Misc	0	0	130	0	30,000	100%
Total Expense:	311,476	330,712	501,931	178,577	578,000	69%

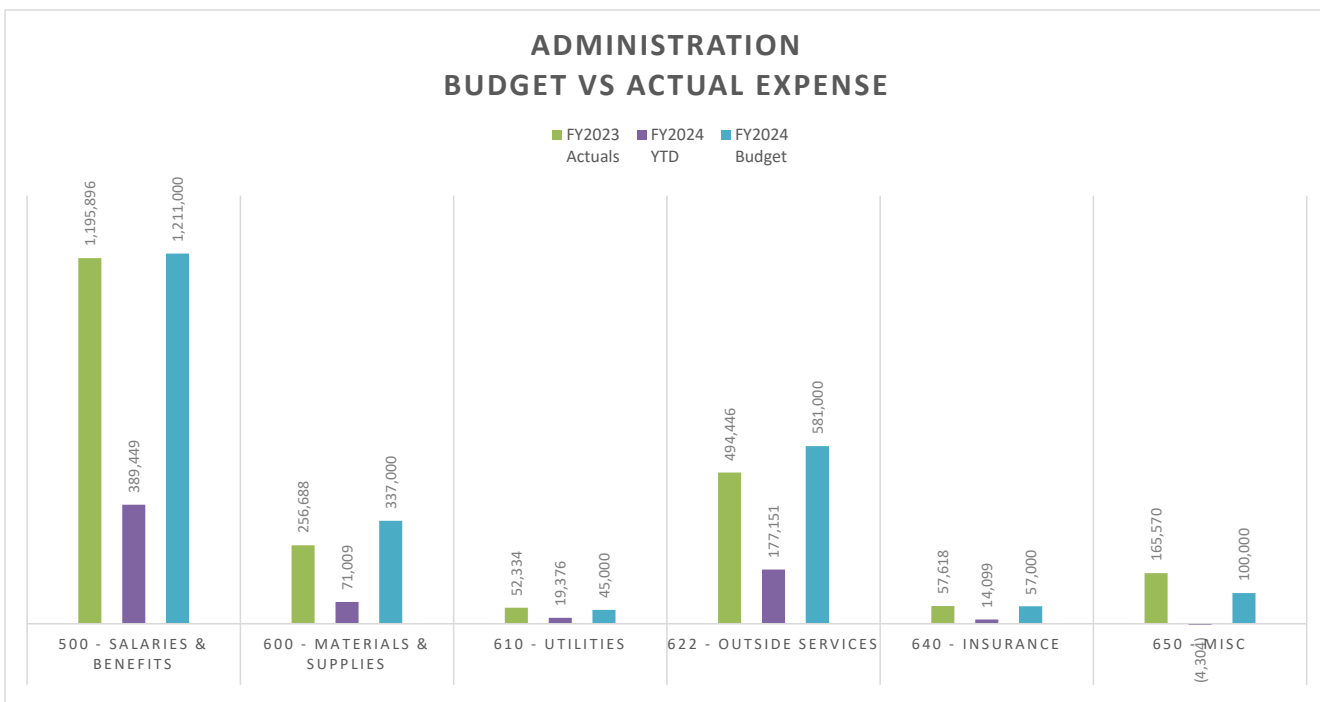


Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 60 - Administration						
500 - Salaries & Benefits	998,237	1,229,198	1,195,896	389,449	1,211,000	68%
600 - Materials & Supplies	109,204	200,854	256,688	71,009	337,000	79%
610 - Utilities	44,365	41,673	52,334	19,376	45,000	57%
622 - Outside Services	1,656,841	1,414,867	494,446	177,151	581,000	70%
640 - Insurance	56,970	44,979	57,618	14,099	57,000	75%
650 - Misc	106,549	134,444	165,570	(4,304)	100,000	104%
Total Expense:	2,972,166	3,066,015	2,222,553	666,780	2,331,000	71%

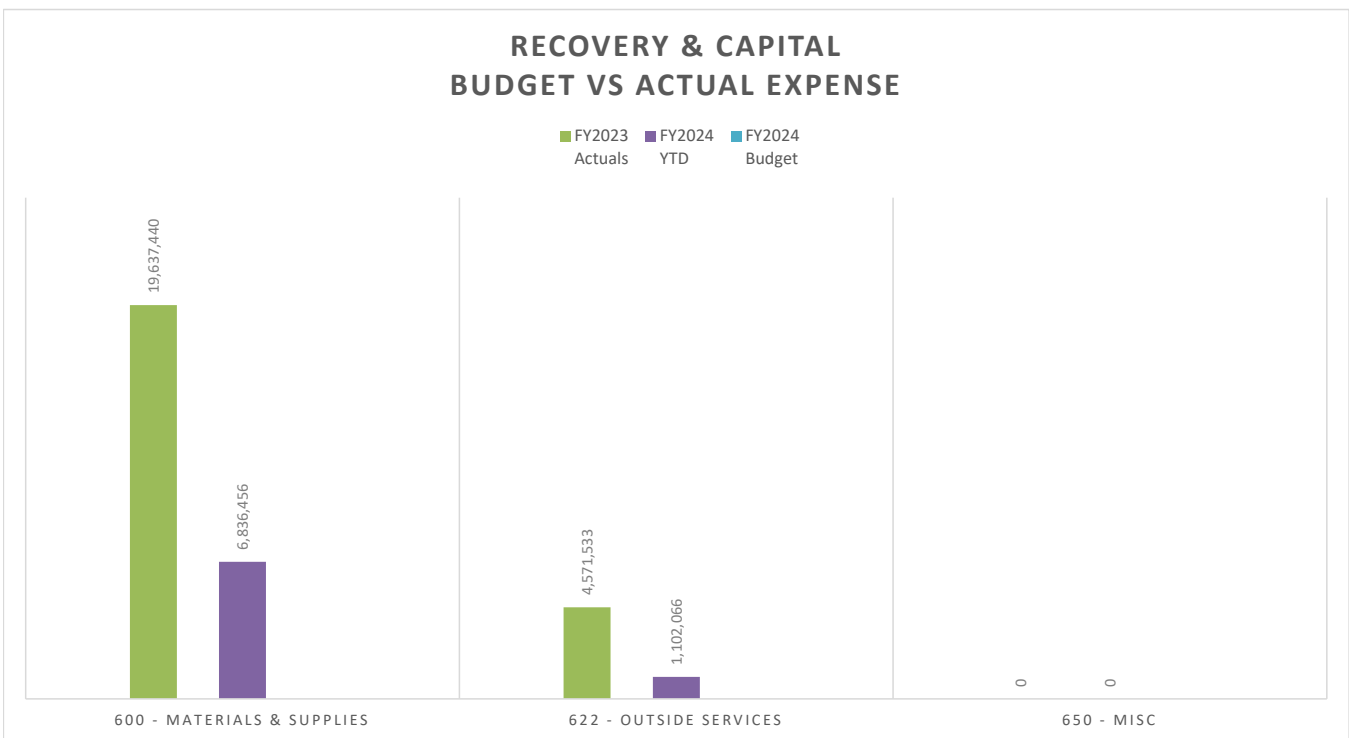


Paradise Irrigation District

Treasurer's Report October 31, 2023

Fiscal Year-to-Date Income & Expense Report

	FY2021 Actuals	FY2022 Actuals	FY2023 Actuals	FY2024 YTD	FY2024 Budget	% Budget Remaining
Depart: 70 - Recovery & Capital						
600 - Materials & Supplies	2,757,174	10,417,053	19,637,440	6,836,456		
622 - Outside Services	1,958,968	2,643,947	4,571,533	1,102,066		
650 - Misc			0	0		
Total Expense:	4,716,142	13,061,000	24,208,973	7,938,522	0	



PORTFOLIO SUMMARY

As of October 31, 2023

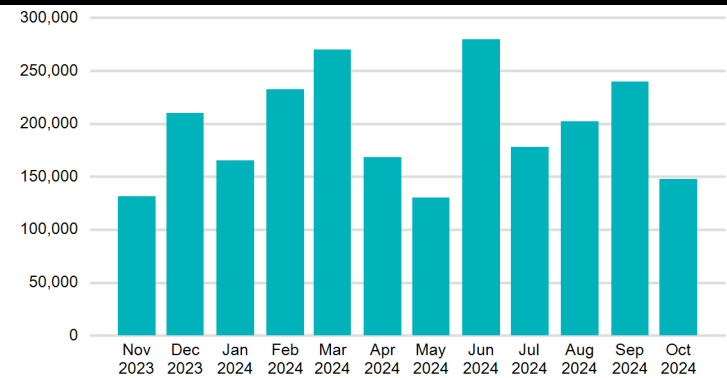
MONTHLY RECONCILIATION

Beginning Book Value	76,175,592.12
Contributions	5,500,000.00
Withdrawals	
Prior Month Management Fees	(3,000.00)
Prior Month Custodian Fees	(625.14)
Realized Gains/Losses	33,404.33
Purchased Interest	(16,236.13)
Gross Interest Earnings	154,325.37
Ending Book Value	81,843,460.55

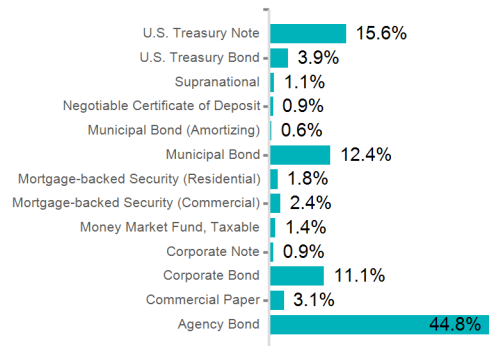
PORTFOLIO CHARACTERISTICS

Portfolio Yield to Maturity	4.00%
Portfolio Effective Duration	2.30 yrs
Weighted Average Maturity	2.55 yrs
Weighted Average Life	2.70 yrs

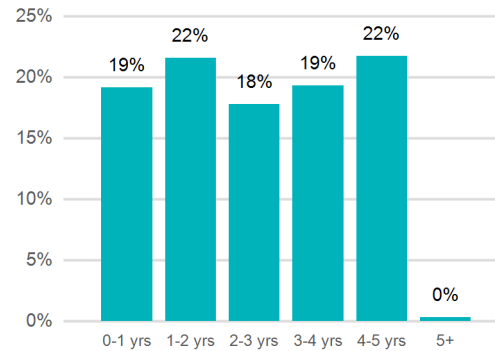
PROJECTED MONTHLY INCOME SCHEDULE



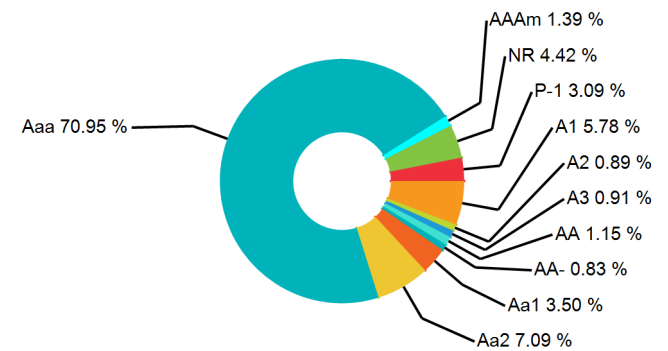
SECTOR ALLOCATION



MATURITY DISTRIBUTION



CREDIT QUALITY



PARADISE IRRIGATION DISTRICT

Expense Approval Report

Percentage of Total Payments* by Account

October 1 - 31, 2023

*Displaying accounts greater than 1.00%

Account Number	Account Name	Payments	% of Total
01-70-601099	Recovery & Capital	2,771,230.43	56.45%
01-250030	2016 Private Placement Loan (Refinance)	1,232,334.00	25.10%
01-70-635020	Engineering	325,923.34	6.64%
01-225000	PFD Hydrant InterFund Oblig	137,883.81	2.81%
01-120000	Pre-Paid Expenses	92,815.00	1.89%
01-210030	FICA	62,508.82	1.27%
	<i>Remainder</i>	<i>\$287,028.48</i>	<i>5.85%</i>
Grand Total		\$4,909,723.88	

PARADISE IRRIGATION DISTRICT

Expense Approval Report

Percentage of Total Payments* by Vendor

October 1 - 31, 2023

*Displaying accounts greater than 1%

Vendor	Payments	% of Total	
RCI General Engineering	2,299,260.58	46.83%	
Capital One Public Funding, LLC	1,264,452.78	25.75%	
T&S Construction Co., Inc	333,408.33	6.79%	
Water Works Engineers	325,923.34	6.64%	
Town of Paradise	137,883.81	2.81%	
ACWA/JPIA	126,975.26	2.59%	
Internal Revenue Service	104,219.34	2.12%	
	<i>Remainder</i>	<i>\$317,600.44</i>	<i>6.47%</i>
Grand Total	\$4,909,723.88		



Paradise Irrigation District

Expense Approval Report By Vendor Name

Payment Dates 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
Vendor: 01016 - Access Information Management				
10/19/2023	APA001267	10511307	Bulk Shredding	226.08
Vendor 01016 - Access Information Management Total:				226.08
Vendor: 01021 - ACWA/JPIA				
10/26/2023	58050	268	General Liability Program 10/...	92,815.00
10/06/2023	58037	700871	Dental	2,379.87
10/06/2023	58037	700871	Life	515.17
10/06/2023	58037	700871	Health	30,541.99
10/06/2023	58037	700871	EAP	96.72
10/06/2023	58037	700871	Vision	626.51
Vendor 01021 - ACWA/JPIA Total:				126,975.26
Vendor: 03213 - Adobe Systems				
10/15/2023	DFT0006716	INV0007084	Software	29.99
Vendor 03213 - Adobe Systems Total:				29.99
Vendor: 03185 - Advanced Document Concepts For Business				
10/19/2023	APA001268	INV110031	Equipment maintenance	376.13
Vendor 03185 - Advanced Document Concepts For Business Total:				376.13
Vendor: 02957 - Aflac				
10/13/2023	DFT0006630	INV0007044	Montly Invoices	127.20
10/13/2023	DFT0006631	INV0007045	Montly Aflac Invoice	228.12
10/27/2023	DFT0006683	INV0007068	Montly Invoices	127.20
10/27/2023	DFT0006684	INV0007069	Montly Aflac Invoice	269.22
Vendor 02957 - Aflac Total:				751.74
Vendor: 03066 - Airgas USA, LLC				
10/18/2023	DFT0006665	5502809363	Welding supplies	776.43
Vendor 03066 - Airgas USA, LLC Total:				776.43
Vendor: 03077 - All Around Heating & Air				
10/17/2023	DFT0006654	I-6082-1	Heating & Air Unit	14,689.00
Vendor 03077 - All Around Heating & Air Total:				14,689.00
Vendor: 03323 - All Things Trees				
10/26/2023	DFT0006710	1570	Tree Removal	5,500.00
10/26/2023	DFT0006711	1571	Tree Removal	4,500.00
Vendor 03323 - All Things Trees Total:				10,000.00
Vendor: 03211 - Amazon.com				
10/02/2023	DFT0006610	114-0033163-3854670	Supplies	48.76
10/04/2023	DFT0006724	112-2292964-1393818	Supplies	106.70
10/10/2023	DFT0006668	112-2385355-6779419	Supplies	14.54
10/13/2023	DFT0006669	114-4680828-6792251	Supplies	199.33
10/17/2023	DFT0006701	111-5101029-9274632	Supplies	114.16
10/17/2023	DFT0006702	112-1815577-4000201	Supplies	133.60
10/18/2023	DFT0006703	112-9693666-6621059	Maintenance Supplies	123.26
10/19/2023	DFT0006704	112-5582195-4693009	Supplies	38.10
10/20/2023	DFT0006705	112-4622296-1712240	Supplies	25.30
10/23/2023	DFT0006725	111-3377459-6629809	supplies	52.70
10/23/2023	DFT0006725	111-3377459-6629809	Supplies	52.70
10/23/2023	DFT0006728	113-0130220-7487410	Supplies	62.46
10/25/2023	DFT0006706	111-7865672-4917819	Tools	473.52
10/28/2023	DFT0006726	113-7754000-7113830	Supplies	184.89
10/31/2023	DFT0006727	113-5909107-7378616	Supplies	105.25
Vendor 03211 - Amazon.com Total:				1,735.27

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
Vendor: 03266 - Apple				
10/10/2023	DFT0006718	INV0007083	icloud	0.99
Vendor 03266 - Apple Total:				0.99
Vendor: 03090 - APTIM Environmental & Infrastructure LLC				
10/27/2023	APA001288	607477	Recovery Managment	34,172.25
Vendor 03090 - APTIM Environmental & Infrastructure LLC Total:				34,172.25
Vendor: 01068 - Aramark Uniform Services				
10/10/2023	DFT0006622	5066384714	Uniforms	374.05
10/10/2023	DFT0006622	5066390114	Uniforms	419.01
10/10/2023	DFT0006622	5066390122	Uniforms	131.42
10/10/2023	DFT0006622	5066395808	Uniforms	379.05
10/10/2023	DFT0006622	5066395809	Uniforms	131.42
10/10/2023	DFT0006622	5066401157	Uniforms	419.01
10/10/2023	DFT0006622	5066401158	Uniforms	131.42
10/10/2023	DFT0006622	5066406707	Uniforms	131.42
Vendor 01068 - Aramark Uniform Services Total:				2,116.80
Vendor: 01074 - Asbury Enviromental Service				
10/26/2023	DFT0006712	I500-00981482	Used Oil Pick up	100.00
Vendor 01074 - Asbury Enviromental Service Total:				100.00
Vendor: 01082 - AT&T				
10/10/2023	APA001248	20539965	Office telephones	745.55
Vendor 01082 - AT&T Total:				745.55
Vendor: 03267 - Autodesk				
10/13/2023	DFT0006670	9071333749	AUTODESK SUBSCRIPTION	300.00
Vendor 03267 - Autodesk Total:				300.00
Vendor: 02870 - Boot Barn, Inc				
10/19/2023	APA001269	INV00299154	Safety Boots	702.01
Vendor 02870 - Boot Barn, Inc Total:				702.01
Vendor: 01942 - Butte Co - Neal Rd Landfill				
10/19/2023	APA001270	21100	Landfill fee	238.76
Vendor 01942 - Butte Co - Neal Rd Landfill Total:				238.76
Vendor: 02971 - Capital One Public Funding, LLC				
10/23/2023	1295	11558031	Capital One 2016 Refinance	1,232,334.00
10/23/2023	1295	11558031	Capital One 2016 Refinance	32,118.78
Vendor 02971 - Capital One Public Funding, LLC Total:				1,264,452.78
Vendor: 01266 - Cedar Creek Publishing				
10/19/2023	APA001271	231008_P1	Postage / Marketing	1,448.75
Vendor 01266 - Cedar Creek Publishing Total:				1,448.75
Vendor: 01280 - Chico Power Equipment				
10/19/2023	DFT0006729	436800	Tools	521.12
Vendor 01280 - Chico Power Equipment Total:				521.12
Vendor: 03194 - Cintas Corporation				
10/10/2023	DFT0006624	5177118551	Supplies	251.88
Vendor 03194 - Cintas Corporation Total:				251.88
Vendor: 03157 - Clarity HR Consulting				
10/10/2023	DFT0006666	1739	HR Consulting	425.00
Vendor 03157 - Clarity HR Consulting Total:				425.00
Vendor: 01320 - Comcast				
10/17/2023	DFT0006655	2023-09	WTP TV	29.68
10/17/2023	DFT0006655	2023-09	WTP Internet	207.70
10/17/2023	DFT0006655	2023-09	Shop TV	79.46
10/18/2023	DFT0006656	182914089	Internet - Office	851.42
Vendor 01320 - Comcast Total:				1,168.26

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
Vendor: 03203 - Constant Contact				
10/16/2023	DFT0006667	2023-10	Marketing / Email	145.00
Vendor 03203 - Constant Contact Total:				145.00
Vendor: 01353 - Cooperative Personnel Services				
10/10/2023	APA001249	9599	Class study	11,067.00
10/19/2023	APA001272	11033	Class Study -Job evaluation int...	11,067.00
Vendor 01353 - Cooperative Personnel Services Total:				22,134.00
Vendor: 03264 - CORE & MAIN LP				
10/10/2023	APA001250	T612783	Valve Gate - CI - 6" FL	1,622.54
Vendor 03264 - CORE & MAIN LP Total:				1,622.54
Vendor: 01552 - Davi, Bruce				
10/10/2023	APA001251	13992	Weed & pest control	425.00
10/10/2023	APA001251	13994	Weed & pest control	500.00
10/10/2023	APA001251	13995	Weed & pest control	875.00
10/10/2023	APA001251	13996	Weed & pest control	200.00
Vendor 01552 - Davi, Bruce Total:				2,000.00
Vendor: 01403 - De Novo Planning Group				
10/10/2023	APA001252	4012	PID Water Rights-Phase CEQ...	17,081.19
Vendor 01403 - De Novo Planning Group Total:				17,081.19
Vendor: 03321 - Door System Design, Inc				
10/27/2023	APA001289	0149444-IN	Security Gate	625.00
Vendor 03321 - Door System Design, Inc Total:				625.00
Vendor: 02888 - Elecsys International Corporation				
10/19/2023	APA001273	SIP-E183935	Misc. supplies	10.00
Vendor 02888 - Elecsys International Corporation Total:				10.00
Vendor: 01496 - Employee Relations				
10/10/2023	APA001253	2023-09	Pre-employment	219.88
10/19/2023	APA001274	95867	Pre-employment	219.88
Vendor 01496 - Employee Relations Total:				439.76
Vendor: 01480 - Employment Development Dept.				
10/01/2023	DFT0006583	INV0007033	State Disability Withholding	4.75
10/02/2023	DFT0006574	INV0007024	State Income Tax Withholding	5,291.38
10/02/2023	DFT0006577	INV0007027	State Disability Withholding	1,202.74
10/08/2023	DFT0006603	INV0007039	State Income Tax Withholding	56.54
10/08/2023	DFT0006606	INV0007042	State Disability Withholding	28.89
10/16/2023	DFT0006638	INV0007054	State Income Tax Withholding	5,290.60
10/16/2023	DFT0006641	INV0007057	State Disability Withholding	1,189.45
10/16/2023	DFT0006649	INV0007063	State Income Tax Withholding	29.76
10/16/2023	DFT0006652	INV0007066	State Disability Withholding	22.08
10/30/2023	DFT0006691	INV0007078	State Income Tax Withholding	5,369.21
10/30/2023	DFT0006694	INV0007081	State Disability Withholding	1,231.12
Vendor 01480 - Employment Development Dept. Total:				19,716.52
Vendor: 01275 - Enterprise Record				
10/19/2023	APA001275	6777060	PID 2020 Urban Water Manag...	48.15
Vendor 01275 - Enterprise Record Total:				48.15
Vendor: 01526 - Federal Express Corp.				
10/18/2023	DFT0006681	8-277-77889	Postage	47.37
Vendor 01526 - Federal Express Corp. Total:				47.37
Vendor: 01528 - FGL Environmental				
10/11/2023	DFT0006628	376198A	Quarterly Raw Water Quality...	144.00
10/11/2023	DFT0006628	377150A	Waste Water Monitoring	31.00
10/11/2023	DFT0006628	377547A	Routine Bacti Monitoring	103.00
10/11/2023	DFT0006628	377042A	Routine Bacti Monitoring	103.00
10/11/2023	DFT0006628	377208A	Water Quality Monitoring	28.00
10/11/2023	DFT0006628	377334A	Routine Bacti Monitoring	103.00
10/11/2023	DFT0006628	377628A	Waste Water Monitoring	302.00
10/11/2023	DFT0006628	377818A	Schmale Tee	28.00

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
10/11/2023	DFT0006628	378028A	Routine Bacti Monitoring	103.00
Vendor 01528 - FGL Environmental Total:				945.00
Vendor: 02945 - Fiserv Solutions, LLC				
10/10/2023	APA001254	90287196	Bank charges	8.50
Vendor 02945 - Fiserv Solutions, LLC Total:				8.50
Vendor: 03309 - GoDaddy				
10/01/2023	DFT0006721	INV0007085	Software	13.99
Vendor 03309 - GoDaddy Total:				13.99
Vendor: 01688 - Home Depot				
10/10/2023	DFT0006657	45209	Supplies	62.99
10/23/2023	DFT0006730	2023-10	Supplies	44.89
Vendor 01688 - Home Depot Total:				107.88
Vendor: 01705 - Hunt & Sons, Inc.				
10/11/2023	DFT0006629	101630	225gals. unleaded gasoline	1,105.16
10/11/2023	DFT0006629	629260	125gals. unleaded gasoline	641.53
10/11/2023	DFT0006629	631855	275gals. clear diesel	1,670.06
10/11/2023	DFT0006629	631856	351gals. dyed diesel	1,783.04
10/11/2023	DFT0006629	634051	750gals. clear diesel	4,523.38
10/11/2023	DFT0006629	635667	175gals. unleaded gasoline	952.97
Vendor 01705 - Hunt & Sons, Inc. Total:				10,676.14
Vendor: 01713 - I.B.E.W. Local Union 1245				
10/10/2023	APA001255	INV0007038	Union Dues	-2.00
10/10/2023	APA001255	INV0007038	Union Dues	38.34
10/19/2023	APA001276	INV0007052	Union Dues	1,019.95
10/19/2023	APA001276	INV0007052	Union Dues	-46.00
10/27/2023	APA001290	INV0007076	Union Dues	-42.00
10/27/2023	APA001290	INV0007076	Union Dues	936.80
Vendor 01713 - I.B.E.W. Local Union 1245 Total:				1,905.09
Vendor: 01716 - ICMA Retirement Trust-401				
10/05/2023	DFT0006600	INV0007035	Retirement - 401(a) Match	56.38
10/13/2023	DFT0006633	INV0007047	Retirement - 401(a) Match	2,794.83
10/13/2023	DFT0006645	INV0007059	Retirement - 401(a) Match	48.02
10/27/2023	DFT0006686	INV0007071	Retirement - 401(a) Match	3,029.60
Vendor 01716 - ICMA Retirement Trust-401 Total:				5,928.83
Vendor: 01715 - ICMA Retirement Trust-457				
10/05/2023	DFT0006601	INV0007036	Retirement Trust - 457	56.38
10/05/2023	DFT0006602	INV0007037	Deferred Comp 457	169.13
10/13/2023	DFT0006634	INV0007048	Retirement Trust - 457	2,794.83
10/13/2023	DFT0006635	INV0007049	Deferred Comp 457	9,055.29
10/13/2023	DFT0006636	INV0007050	Retirement Trust - 457	2,358.53
10/13/2023	DFT0006637	INV0007051	Retirement Trust - 457	948.14
10/13/2023	DFT0006646	INV0007060	Retirement Trust - 457	48.02
10/13/2023	DFT0006647	INV0007061	Deferred Comp 457	144.05
10/13/2023	DFT0006648	INV0007062	Retirement Trust - 457	320.12
10/27/2023	DFT0006687	INV0007072	Retirement Trust - 457	3,029.60
10/27/2023	DFT0006688	INV0007073	Deferred Comp 457	9,518.55
10/27/2023	DFT0006689	INV0007074	Retirement Trust - 457	1,960.06
10/27/2023	DFT0006690	INV0007075	Retirement Trust - 457	948.14
Vendor 01715 - ICMA Retirement Trust-457 Total:				31,350.84
Vendor: 02807 - Infosend				
10/10/2023	APA001256	247344	Postage & Mailings	667.75
10/19/2023	APA001277	247585	Postage & Mailings	4,859.38
10/19/2023	APA001277	247633	Postage & Mailings	1,832.02
10/19/2023	APA001277	247765	Postage & Mailings	54.25
Vendor 02807 - Infosend Total:				7,413.40
Vendor: 01720 - Inland Business Systems				
10/19/2023	APA001278	IN3713482	Office supplies	2.32

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
10/27/2023	APA001291	IN3743218	Office supplies	8.01
10/27/2023	APA001291	IN3743218	Office supplies	8.01
Vendor 01720 - Inland Business Systems Total:				18.34
Vendor: 01731 - Internal Revenue Service				
10/01/2023	DFT0006582	INV0007032	FICA Withholding	65.44
10/01/2023	DFT0006584	INV0007034	Medicare Withholding	15.30
10/02/2023	DFT0006575	INV0007025	FICA Withholding	16,584.20
10/02/2023	DFT0006576	INV0007026	Fed Withholding	13,781.64
10/02/2023	DFT0006578	INV0007028	Medicare Withholding	3,878.54
10/08/2023	DFT0006604	INV0007040	FICA Withholding	398.10
10/08/2023	DFT0006605	INV0007041	Fed Withholding	253.11
10/08/2023	DFT0006607	INV0007043	Medicare Withholding	93.10
10/16/2023	DFT0006639	INV0007055	FICA Withholding	16,338.74
10/16/2023	DFT0006640	INV0007056	Fed Withholding	13,699.63
10/16/2023	DFT0006642	INV0007058	Medicare Withholding	3,821.18
10/16/2023	DFT0006650	INV0007064	FICA Withholding	304.22
10/16/2023	DFT0006651	INV0007065	Fed Withholding	88.17
10/16/2023	DFT0006653	INV0007067	Medicare Withholding	71.14
10/30/2023	DFT0006692	INV0007079	FICA Withholding	16,970.04
10/30/2023	DFT0006693	INV0007080	Fed Withholding	13,887.97
10/30/2023	DFT0006695	INV0007082	Medicare Withholding	3,968.82
Vendor 01731 - Internal Revenue Service Total:				104,219.34
Vendor: 03057 - International Brotherhood of 137 TCWH				
10/19/2023	APA001279	INV0007053	Union Dues Teamsters	411.25
10/27/2023	APA001292	INV0007077	Union Dues Teamsters	576.95
Vendor 03057 - International Brotherhood of 137 TCWH Total:				988.20
Vendor: 01722 - isolved, Inc.				
10/06/2023	DFT0006554	1131271682	Plan admin.	88.20
Vendor 01722 - isolved, Inc. Total:				88.20
Vendor: 03322 - Italian Guy Catering, Inc.				
10/18/2023	58041	2023-10	Safety Lunch	1,183.68
Vendor 03322 - Italian Guy Catering, Inc. Total:				1,183.68
Vendor: 03320 - JAMES EDWARD BARNESON				
10/06/2023	58036	817	Office Window Tinting	2,740.00
Vendor 03320 - JAMES EDWARD BARNESON Total:				2,740.00
Vendor: 03255 - John Michael Bunch				
10/19/2023	APA001280	2028	Electrical work	1,135.00
Vendor 03255 - John Michael Bunch Total:				1,135.00
Vendor: 01780 - Kimball Midwest				
10/10/2023	APA001257	101386423	Supplies	8.58
10/10/2023	APA001257	101415081	Supplies	664.64
10/10/2023	APA001257	101437938	548948NW	31.10
10/10/2023	APA001257	101451171	Supplies	494.37
Vendor 01780 - Kimball Midwest Total:				1,198.69
Vendor: 01790 - Knife River Construction				
10/10/2023	APA001258	293332	Materials	571.92
Vendor 01790 - Knife River Construction Total:				571.92
Vendor: 03270 - MAC Tools				
10/02/2023	DFT0006612	212278	Tools	303.73
10/16/2023	DFT0006707	212738	Tools	35.35
Vendor 03270 - MAC Tools Total:				339.08
Vendor: 01905 - Minasian Law				
10/19/2023	APA001281	2023-09	Legal	9,971.47
Vendor 01905 - Minasian Law Total:				9,971.47

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Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
Vendor: 03045 - N.C.G.T. SECURITY FUND				
10/11/2023	1294	2023-10	Health 2023-10	13,806.00
Vendor 03045 - N.C.G.T. SECURITY FUND Total:				13,806.00
Vendor: 01742 - Nelson's Building Maintenance, Inc.				
10/26/2023	DFT0006713	780696	Supplies	79.55
10/26/2023	DFT0006714	780756	Supplies	269.38
Vendor 01742 - Nelson's Building Maintenance, Inc. Total:				348.93
Vendor: 01960 - Normac				
10/10/2023	DFT0006623	0011726411-001	1" brass st ell	558.77
10/10/2023	DFT0006623	0011726411-001	1" close brass nip	229.52
10/10/2023	DFT0006623	0012441901-001	1 x 18 brass nip	740.03
10/10/2023	DFT0006623	0012441901-001	1" brass union	265.12
10/10/2023	DFT0006623	0012441901-001	1" brass 90	83.87
Vendor 01960 - Normac Total:				1,877.31
Vendor: 01980 - Northern Recycling & Waste Svcs				
10/18/2023	DFT0006658	2023-09(2)	Garbage	36.00
Vendor 01980 - Northern Recycling & Waste Svcs Total:				36.00
Vendor: 01995 - Office Depot				
10/10/2023	APA001259	2023-09	Office supplies	230.93
10/27/2023	APA001293	334642288001	Office supplies	779.31
10/27/2023	APA001293	334650381001	Office supplies	214.44
10/27/2023	APA001293	334007969001	Office supplies	67.62
10/16/2023	DFT0006698	2023-10	Office supplies	43.82
Vendor 01995 - Office Depot Total:				1,336.12
Vendor: 01538 - O'Reilly Auto Parts				
10/10/2023	APA001260	3534-106166	Repair parts	94.95
10/10/2023	APA001260	3534-106592	Repair parts	23.71
10/10/2023	APA001260	3534-106861	Repair parts	85.08
Vendor 01538 - O'Reilly Auto Parts Total:				203.74
Vendor: 02081 - Pacific Gas & Electric Company				
10/06/2023	DFT0006625	2023-09 (1 of 2)	Gas & Electric	20,000.00
10/09/2023	DFT0006564	2023-09 (2 of 2)	Gas & Electric	6,113.75
Vendor 02081 - Pacific Gas & Electric Company Total:				26,113.75
Vendor: 02070 - Peterson				
10/19/2023	APA001282	PC010228207	Repair Parts	2,189.09
Vendor 02070 - Peterson Total:				2,189.09
Vendor: 02091 - Pitney Bowes				
10/16/2023	DFT0006562	3106301012	Letter Opener Lease	376.71
10/16/2023	DFT0006699	2023-09	Postage refill	1,000.00
10/31/2023	DFT0006733	66045722	Postage machine	1,108.00
Vendor 02091 - Pitney Bowes Total:				2,484.71
Vendor: 03048 - Plan B Professional Answering Service				
10/10/2023	APA001261	2023-10	Answering service	151.60
Vendor 03048 - Plan B Professional Answering Service Total:				151.60
Vendor: 03167 - RCI General Engineering				
10/06/2023	58038	2023-07	MISLR2 5% retention RCI	-51,991.63
10/06/2023	58038	2023-07	MISLR 2	1,039,832.62
10/26/2023	58051	2023-08	MISLR 2	-69,022.08
10/26/2023	58051	2023-08	MISLR 2	1,380,441.67
Vendor 03167 - RCI General Engineering Total:				2,299,260.58
Vendor: 03289 - reMarkable				
10/18/2023	DFT0006708	1a83448e8636	Supplies	600.17
Vendor 03289 - reMarkable Total:				600.17
Vendor: 01631 - Rental Guys				
10/10/2023	APA001262	955859-6	Rental equipment	308.78

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
10/19/2023	APA001283	957706-6	Rental equipment	182.28
Vendor 01631 - Rental Guys Total:				491.06
Vendor: 02057 - Riebes Auto Parts				
10/10/2023	DFT0006659	5356-135443	Parts & Supplies	35.57
10/26/2023	DFT0006732	53566-136786	Parts & Supplies	9.83
Vendor 02057 - Riebes Auto Parts Total:				45.40
Vendor: 03232 - RoadSafe Traffic Systems, Inc				
10/10/2023	APA001263	184050	Safety Supplies	875.31
Vendor 03232 - RoadSafe Traffic Systems, Inc Total:				875.31
Vendor: 02211 - Sabre Backflow, LLC.				
10/19/2023	APA001284	3684	case for backflow test kit	190.97
Vendor 02211 - Sabre Backflow, LLC. Total:				190.97
Vendor: 03306 - Save Mart				
10/19/2023	DFT0006709	2023-10	Lunch and Learn-Safety meeti...	28.94
Vendor 03306 - Save Mart Total:				28.94
Vendor: 03153 - Slate Geotechnical Consultants, Inc.				
10/18/2023	58042	2170	23-062-01 Magalia Dam Final ...	10,587.88
Vendor 03153 - Slate Geotechnical Consultants, Inc. Total:				10,587.88
Vendor: 03273 - Snap-On Credit LLC				
10/01/2023	DFT0006557	INV0007013	Zeus Software	99.00
10/10/2023	DFT0006720	INV0007089	Zeus Software	99.00
Vendor 03273 - Snap-On Credit LLC Total:				198.00
Vendor: 03210 - Spatial Networks, Inc.				
10/01/2023	DFT0006614	7E7049A6-0051	Field software, Fulcrum	756.00
Vendor 03210 - Spatial Networks, Inc. Total:				756.00
Vendor: 02292 - Standard Insurance Company				
10/06/2023	58039	2023-10	ST Disability	25.43
10/06/2023	58039	2023-10	LT Disability	165.29
10/06/2023	58039	2023-10	LT Disability	315.26
10/06/2023	58039	2023-10	ST Disability	48.50
10/06/2023	58039	2023-10	ST Disability	12.51
10/06/2023	58039	2023-10	LT Disability	81.35
10/06/2023	58039	2023-10	LT Disability	232.45
10/06/2023	58039	2023-10	ST Disability	35.76
Vendor 02292 - Standard Insurance Company Total:				916.55
Vendor: 03061 - Sterling Health Services, Inc DBA				
10/13/2023	DFT0006632	INV0007046	HSA Contribution	167.30
10/27/2023	DFT0006685	INV0007070	HSA Contribution	167.30
Vendor 03061 - Sterling Health Services, Inc DBA Total:				334.60
Vendor: 03242 - SWALE Inc.				
10/19/2023	58047	APA001181	Consulting check reissue	14,943.73
10/19/2023	DFT0006682	CM0000255	Consulting service reissue che...	-14,943.73
Vendor 03242 - SWALE Inc. Total:				0.00
Vendor: 03284 - T&S Construction Co., Inc - Umpqua Bank				
10/18/2023	58044	2023-09	Zone A Pump Station & Trans...	17,547.81
Vendor 03284 - T&S Construction Co., Inc - Umpqua Bank Total:				17,547.81
Vendor: 03283 - T&S Construction Co., Inc				
10/18/2023	58043	2023-09	Zone A Pump Station & Trans...	333,408.33
Vendor 03283 - T&S Construction Co., Inc Total:				333,408.33
Vendor: 02362 - Thomas Ace Hardware				
10/02/2023	DFT0006599	214751	Supplies	33.87
10/02/2023	DFT0006599	215088	Supplies	161.41
10/02/2023	DFT0006599	215228	Supplies	13.41
10/11/2023	DFT0006627	215264	Supplies	12.05
10/02/2023	DFT0006599	215388	Supplies	41.90
10/02/2023	DFT0006599	215473	Supplies	4.09

Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
10/02/2023	DFT0006599	215554	Supplies	9.15
10/02/2023	DFT0006599	215677	Supplies	15.21
10/02/2023	DFT0006626	215693	Supplies	41.03
10/02/2023	DFT0006599	215717	Supplies	5.15
10/02/2023	DFT0006599	215796	Supplies	28.66
10/02/2023	DFT0006599	215840	Supplies	31.25
10/02/2023	DFT0006599	216004	Supplies	273.31
10/02/2023	DFT0006599	216014	Supplies	18.30
10/02/2023	DFT0006599	216177	Supplies	54.94
10/02/2023	DFT0006599	216237	Supplies	123.42
10/02/2023	DFT0006599	216286	Supplies	19.56
10/02/2023	DFT0006599	216346	Supplies	35.41
10/11/2023	DFT0006627	216439	Supplies	23.56
10/11/2023	DFT0006627	216500	Supplies	141.39
10/02/2023	DFT0006626	216539	Supplies	43.30
10/11/2023	DFT0006627	216542	Supplies	111.20
10/02/2023	DFT0006626	216659	Tools	25.84
10/02/2023	DFT0006626	216676	Supplies	70.44
10/02/2023	DFT0006626	216690	Supplies	26.80
10/11/2023	DFT0006627	216764	Supplies	8.64
10/11/2023	DFT0006627	216818	Supplies	21.12
10/11/2023	DFT0006627	216889	Supplies	17.96
10/11/2023	DFT0006627	216984	Supplies	36.39
10/11/2023	DFT0006627	217032	Supplies	25.35
10/11/2023	DFT0006627	217040	Supplies	2.79
10/11/2023	DFT0006672	217125	Supplies	72.88
10/11/2023	DFT0006627	217176	Supplies	33.79
10/11/2023	DFT0006674	217254	Supplies	13.81
10/11/2023	DFT0006673	217314	Supplies	0.41
10/11/2023	DFT0006675	217367	Supplies	3.03
10/11/2023	DFT0006676	217382	Supplies	50.66
10/11/2023	DFT0006680	217398	Supplies	63.92
10/11/2023	DFT0006677	217537	Supplies	5.44
10/11/2023	DFT0006643	AN23447	Credit for double payment	-3,517.99
10/11/2023	DFT0006671	217588	Supplies	2.91
10/11/2023	DFT0006679	217607	Supplies	95.90
10/11/2023	DFT0006678	217624	Supplies	2.34
10/26/2023	DFT0006715	217788	Supplies	13.94
10/26/2023	DFT0006715	217795	Supplies	8.35
10/26/2023	DFT0006715	217996	tools	163.06
10/26/2023	DFT0006715	218004	Supplies	10.86
10/26/2023	DFT0006715	218236	Supplies	40.35
10/26/2023	DFT0006715	218306	Supplies	49.21
10/26/2023	DFT0006715	2183338	Supplies	56.81
10/26/2023	DFT0006715	218335	Supplies	19.73
10/26/2023	DFT0006715	218335	Supplies	19.73
10/26/2023	DFT0006715	218581	Supplies	34.30
10/26/2023	DFT0006715	218584	Tools	34.62
10/26/2023	DFT0006715	218632	Supplies	37.39
10/26/2023	DFT0006715	218659	Supplies	19.15
10/26/2023	DFT0006715	218679	Supplies	2.98
10/26/2023	DFT0006715	218684	Supplies	5.20
10/26/2023	DFT0006715	218706	Supplies	4.33
Vendor 02362 - Thomas Ace Hardware Total:				-1,175.99

Vendor: 02376 - Town of Paradise

10/06/2023	58040	2023-00000001	Hydrant Repairs&Maint 10/01...	137,883.81
Vendor 02376 - Town of Paradise Total:				137,883.81

Vendor: 02394 - Tyler Technologies, Inc.

10/19/2023	APA001285	025-440691	Software	2,944.90
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Expense Approval Report

Payment Dates: 10/1/2023 - 10/31/2023

Payment Date	Payment Number	Payable Number	Description (Item)	Amount
10/19/2023	APA001285	025-441141	Software	170.80
Vendor 02394 - Tyler Technologies, Inc. Total:				3,115.70
Vendor: 02824 - US Bank Corporate Payment System				
10/03/2023	DFT0006616	780206	GIS Training-ESRI	1,790.00
10/05/2023	DFT0006662	050291-Stop&Shop	Propane for ForkLift	34.81
10/05/2023	DFT0006661	222938-EGPE	Frieght	49.85
10/06/2023	DFT0006663	2023-10 Double-H Company	Safety Boots	173.19
10/06/2023	DFT0006664	25606492	uniforms-Western Wear	189.45
10/06/2023	DFT0006615	7673829952	Job Posting-Craigslist	20.00
10/25/2023	DFT0006700	2023-10 Google	Security monitoring	80.00
Vendor 02824 - US Bank Corporate Payment System Total:				2,337.30
Vendor: 02686 - USA Blue Book				
10/27/2023	APA001294	INV00125585	Repair	600.07
10/10/2023	APA001264	INV00137076	Repair Parts	69.04
10/27/2023	APA001294	SO3135464	Supplies	69.04
Vendor 02686 - USA Blue Book Total:				738.15
Vendor: 02703 - Verizon Wireless				
10/11/2023	DFT0006660	9944954298	Cell phone	315.25
10/11/2023	DFT0006660	9944954298	Cell phone	1,087.19
10/11/2023	DFT0006660	9944954298	Cell phone	376.04
10/11/2023	DFT0006660	9944954298	Cell phone	457.95
Vendor 02703 - Verizon Wireless Total:				2,236.43
Vendor: 02712 - VistaNet inc.				
10/10/2023	APA001265	22937	IT Service	60.00
10/10/2023	APA001265	22938	IT Service	90.00
10/19/2023	APA001286	22952	Shortel Upgrade	14,269.98
10/19/2023	APA001286	22953	Questys	1,809.72
Vendor 02712 - VistaNet inc. Total:				16,229.70
Vendor: 03002 - Water Works Engineers				
10/19/2023	APA001287	14381	17-071 PID Backwash Waste ...	2,827.94
10/18/2023	58045	14382	14-041 PID RES B Replacement..	22,250.40
10/18/2023	58046	14383	19-017 Disaster Recovery Ma...	284,133.25
10/27/2023	APA001295	14393	22-047 PID Valve Tagging Proj...	15,115.12
10/27/2023	APA001295	14398	21-018 PID Urban Mgmt Plan	1,596.63
Vendor 03002 - Water Works Engineers Total:				325,923.34
Vendor: 02742 - White Cap Construction Supply				
10/23/2023	DFT0006737	5581732	Supplies	268.42
Vendor 02742 - White Cap Construction Supply Total:				268.42
Vendor: 03134 - White Glove Cleaning Svc Inc				
10/10/2023	APA001266	76812	Janitorial services	456.00
10/10/2023	APA001266	76813	Janitorial services	550.00
10/10/2023	APA001266	76814	Janitorial services	495.00
Vendor 03134 - White Glove Cleaning Svc Inc Total:				1,501.00
Grand Total:				4,909,723.88

Customer Service Activity Report - October 2023

Service Requests

Service Types	Request Total
Account Management	307
Activate Water w/ Backflow	23
Backflow Maintenance	19
Construction Support	8
Disconnect	1
Field Customer Service	137
Field Maintenance	7
From Active to Ready-to-Serve	15
New Meter Order	0
No Water	10
Transfer Ownership	74
Water Quality	9
Grand Total	610

Increased from 513 service requests in October 2022

Phone Activity

Phone Activity	Oct. 2022	Oct. 2023	Trend
Average calls per day	25.00	40.38	Increased
Average abandoned per day	1.19	1.52	Increased
Average time abandon	1.28 min.	31 sec.	Decreased
Average time to handle	21 sec.	19 sec.	Decreased

Payments Processed

Payment Method	Oct. 2022	Oct. 2023	Trend
Automated Phone System	178	268	Increased
Customer Service Team	2472	2420	Decreased
Web Portal	1540	1835	Increased
Total	4190	4523	Increased

Customer Service Activities

Oct-Nov , 2023

Survey results will return in December

- **DropCountr Registrations**

- We currently have 692 users signed up for DropCountr.
- 17 new users in the last month

- **Vacancies**

- One vacancy in customer service

- **Meter Seals**

- Meter shop staff are working through a list of approximately 650 accounts that are in the sealed status but may not have a physical bullet locking the meter. This is a cleanup/audit project and was low priority, but staff now has time with the addition of the meter advisor position. The project should be done by Spring 2024.

- **Billing**

- November marks the 2nd billing cycle since the major work done in the Zenner database. It's going smoothly so far and we believe the previous Zenner issues to be resolved.

**STAFF REPORT
FIELD OPERATIONS
October 2023**

TRANSMISSION & DISTRIBUTION

DAILY OPERATIONS

- Our crews have been taking care of leaks, emergencies, and maintenance issues.
- 21 scheduled main line and service line leaks were repaired this month.
- Call Center received 104 after hour calls.
- Standby received 14 calls.
- 22 emergency calls due to contractors.
- 1394 Completed USA tickets.
- 160 Backflows were tested.
- There were 3 Infrastructure Damage Reports filed.

SERVICE LINE REPLACEMENT / WATER REQUEST

- 19 Meter and Backflow devices were installed.
- 28 Fire Flow tests were performed.
- 2 Service lines were replaced.

CUSTOMER REIMBURSEMENT JOBS (by work order)

- 1 Cash Job has been completed.
 - One 6" valve was tapped on Clark Rd and a new hydrant was installed along with a 1" service.

OVERVIEW

- Continued efforts are being made with RCI and WWE to keep MISLER #3 project running smoothly and efficiently.
- MISLER #2 has ended as of 10/12/23.
- We are continuing to work on our vehicle replacement program, including surplus of vehicles.
- Zone A Project is going well, we are continuing to work with WWE, T&S, and Blaine on that project.
- Continued coordination with Meyers on the Reservoir B project.
- Beginning phases of MISLER #3 and the Mains Replacement Project.
- Coordinating with the Town of Paradise with their Paving Project.
- In house employee movement from Distribution to the Treatment Plant.
- Ford issued a recall on their trucks and 13 trucks from our fleet were affected.
- Emergency 8" main break on Point West Dr.

MAINTENANCE PROJECTS

- Continued efforts are being made to coordinate work schedules and bids with contractors regarding:
 - Digital Sign Board
 - Both rental buildings on Clark Rd
 - New Roof and Gutters for the Admin Office.
 - Fixing and improving the lighting in the parking lots at the Admin Building and at the Corp Yard.
- Preparation for winter at the admin office and the Corp yard. Including removing debris from all D.I.'s and gutters.
- Vegetation management on various PID properties around town.
- Helped shuttle trucks back and forth to the dealer for recalls.
- General yard maintenance at Corp Yard and Admin Office.

DISTRIBUTION SYSTEM OPERATOR PROJECTS

- Tank site maintenance, including vegetation management, inspection of the top of the tanks to ensure the quality of the backup solar panels.
- Working with a contractor on removing all hazardous trees from C, D, and E tanks. This project will go through early November.
- Flushing dead end mains.
- Continuing to assist and support the field crews.
- Continued efforts are being made on the Reservoir B project. Such as spreading base rock and compacting it for erosion control on the large dirt area behind the tanks and the driveway to the lower portion of the property.

SUMMARY

We have a vacant Utility II position due to the movement within the District. Josh Cooper officially moved from Transmission and Distribution to the Water Treatment Plant on 10/16/23.

Ford Motor Company had issued a recall regarding a faulty emergency brake wiring harness that affected 13 of our F-150's. Each had to be taken back to the dealer to have the part replaced, but after three weeks this is now complete.

On 10/23/23 at approximately 2100 hours, Standby received a call for no water in the Valley View and Point West area. As Standby arrived, they observed the road being pushed up by water approximately 3" - 4" for a length of approximately 60'. After a crew worked through the night, they determined an 8" pipe had split for a 20' length. This pipe has been repaired, water was sampled and restored the following afternoon. We are currently working with the Town of Paradise on the asphalt repair. A claim has been filed and turned into ACWA JPIA.

STAFF REPORT
WATER TREATMENT PLANT
October 2023

WATER TREATMENT

- Production at the District's treatment plant for the month of October varied between 2.6 and 4.9 mgd, with the average day being 3.6 mgd.
 - Compared to:

	<u>pre-fire Oct. 2018</u>	<u>Oct. 2020</u>	<u>Oct. 2021</u>	<u>Oct. 2022</u>
Low	4.3	3.8	2.0	3.4
High	6.4	5.7	4.9	5.0
Avg.	5.4	4.9	3.4	4.2

- Completed required monthly reporting to Department of Drinking Water and Regional Water Control Board.
- Del Oro water delivery began 10-6 and should conclude early November.
- Continued additional sample plan developed for NPDES permit.

Treatment Plant

- (Tesla System Update) Since being brought online the Tesla system at Pump Station #2 has been online and working to alleviate PG&E use during peak hours but still allow pumping to A-Tank. Regarding The Tesla system at the treatment plant, Monday, 10-23 the Tesla team finished up a meter install and believes that they were able to resolve the issues they had been facing. The next step is coordinating a time to get the system operational and ensure that everything is functioning properly, and that PID systems are put back to their original state of function that they were in prior to the install. Once everything is deemed ready to operate, the system will be brought online.
- T&S construction has completed the excavating portion of project at the plant.

MAGALIA/PARADISE DAMS

- Monthly monitoring of piezometers at Magalia and Paradise dams were performed.
- Inspecting our spillways in preparation for the winter season.

WATER QUALITY – DISTRIBUTION SYSTEM

- Routine Sampling – 4 Bacteriological samples are taken each week at locations throughout the Distribution system. They are analyzed for Total Coliforms, Fecal Coliform & E. Coli. These samples verify the potability of the water in the system.

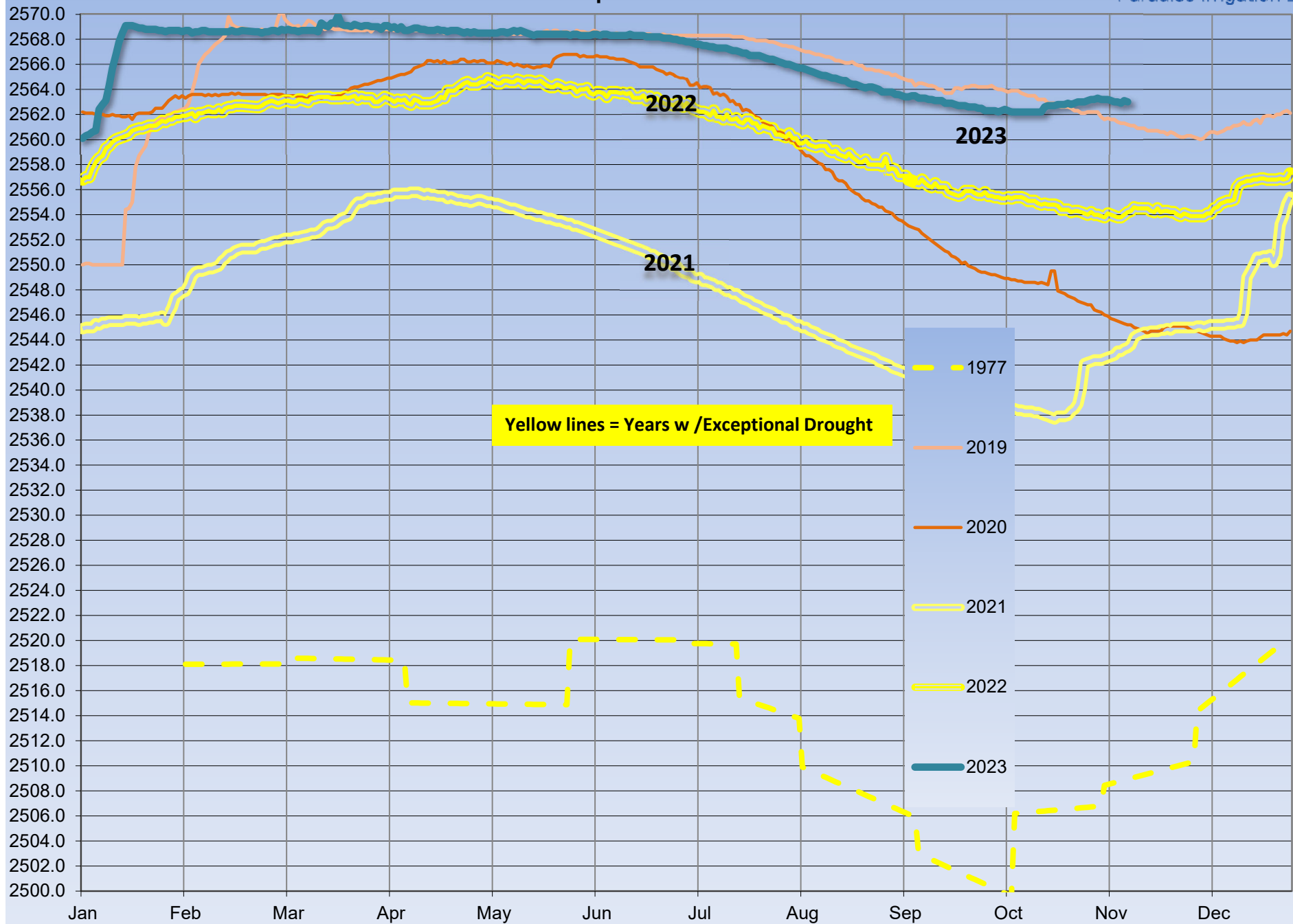
October 2023, WATER QUALITY

- Average daily production: 3.6 mgd
- Average effluent turbidity: 0.04 ntu
- Average raw water turbidity: 0.43 ntu

Water Levels (as of 10/31/2023)

- Magalia Reservoir 2196.9'
- Paradise Lake -4.9' -14.2' same day in 2022
- Percentage of Water in Storage 89%+ of Total Available
- Rainfall for 2023/2024 rainfall year:
 - October Magalia Res. 0.84" Paradise Lake 1.03"
 - November
 - December
 - January
 - February
 - March
 - April
 - May
 - June
 - July
 - August
 - September
 - Total for 2023/2024 Rain Year 0.84" 1.03"
 - Average Rainfall 64.00" 65.20"

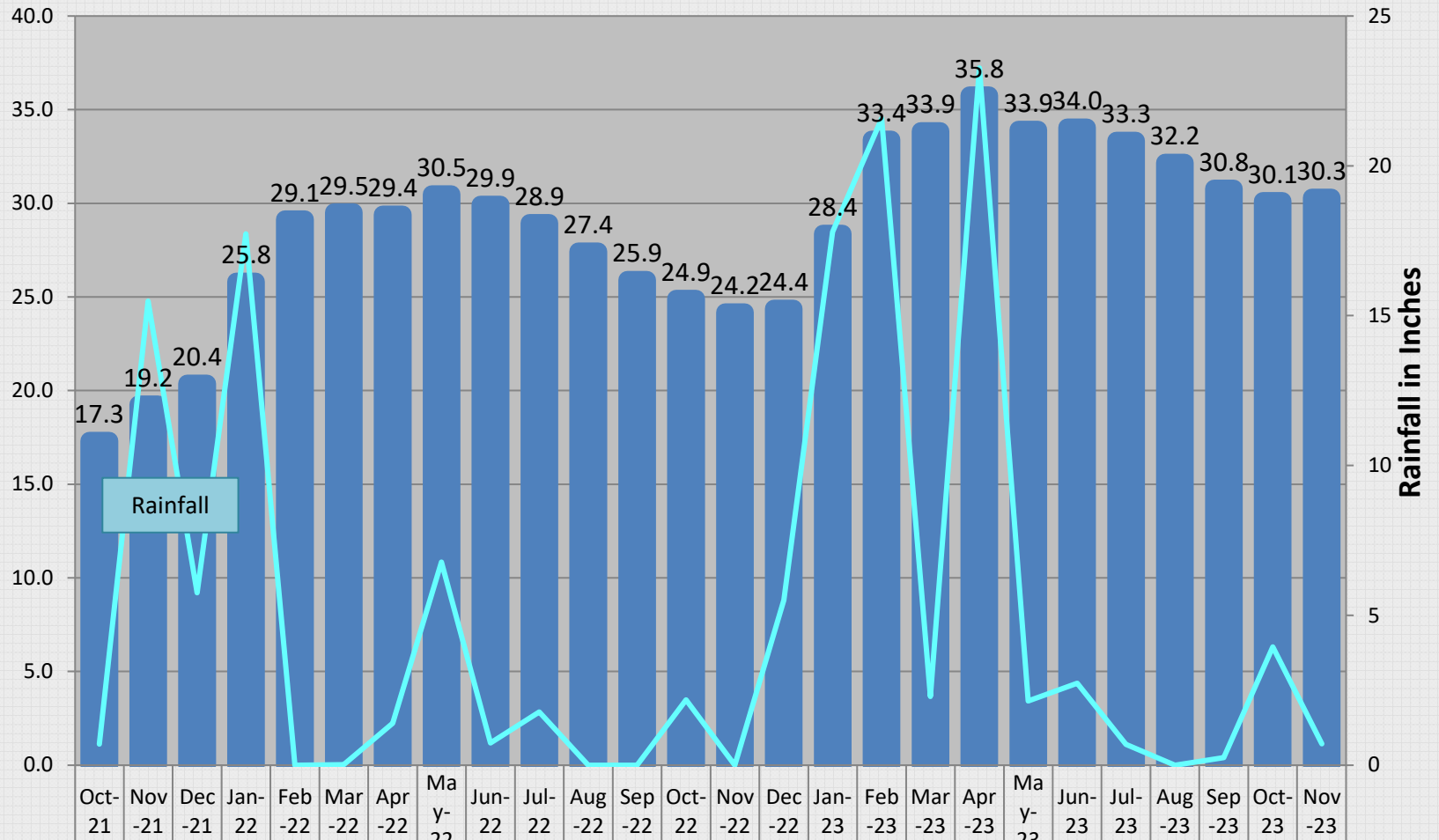
Paradise Lake Elevation
Updated 11/08/2023
Spill = 2568.1



Months of Supply Remaining on the First of the Month with No Future Rain Based on 2020/21 Use

Full Reservoir Supply is 33.84 Months of Supply Remaining. Water use from Oct 2020 through Oct 2021 averaged 363 acre feet per month

Pre-November 2018 Full reservoir



months remaining	17.3	19.2	20.4	25.8	29.1	29.5	29.4	30.5	29.9	28.9	27.4	25.9	24.9	24.2	24.4	28.4	33.4	33.9	35.8	33.9	34.0	33.3	32.2	30.8	30.1	30.3
Rainfall	0.7	15.5	5.75	17.7	0	0.02	1.4	6.78	0.74	1.77	0	0	2.18	0	5.51	17.8	21.6	2.29	23.3	2.14	2.73	0.69	0	0.25	3.95	0.71

District Engineering Update for the Board of Directors

11-8-23

1. Working with customers and providing estimates to provide new water meter services to multiple locations throughout town.
2. Coordinated with Water Works Engineers on the Meter Installation & Service Lateral Replacement (MISLR) Phase 3 and other projects. The MISLR Phase 2 project is coming to an end and will be closing out soon.
3. Working with Slate Geotechnical Consultants for Magalia Dam 100% design. The Design has continued after meeting with FEMA, however any further required borings are on hold until FEMA has finished their review.
4. Zone A pipeline is progressing nicely, they are currently working at the treatment plant on the excavation work for the new pump house.
5. Monthly water reporting is continuously being completed.
6. Working with the Town of Paradise as they complete the 2023 Off-system road paving; all laterals have been replaced on these roads. The town has completed their paving, and we are inspecting our valve cans for proper installation.
7. Working with Water Works Engineers and Myers and Son's on issues with leaking at the new tanks for the Reservoir B project.
8. Notice to proceed has been issued to West Valley for the Mains project. Due to supply chain issues this project is not projected to begin until early next year.
9. MISLR phase 3 work has begun with the installations of backflow only sites and service laterals nearly complete, with 3 crews working on service laterals.
10. Reviewing new housing being built on Cypress Ln. This includes determining the number of meters needing to be added or upgraded. This construction will also incorporate a new pipeline being installed by the contractor and the replacement of one of our mains in the Mains Phase 1 project.

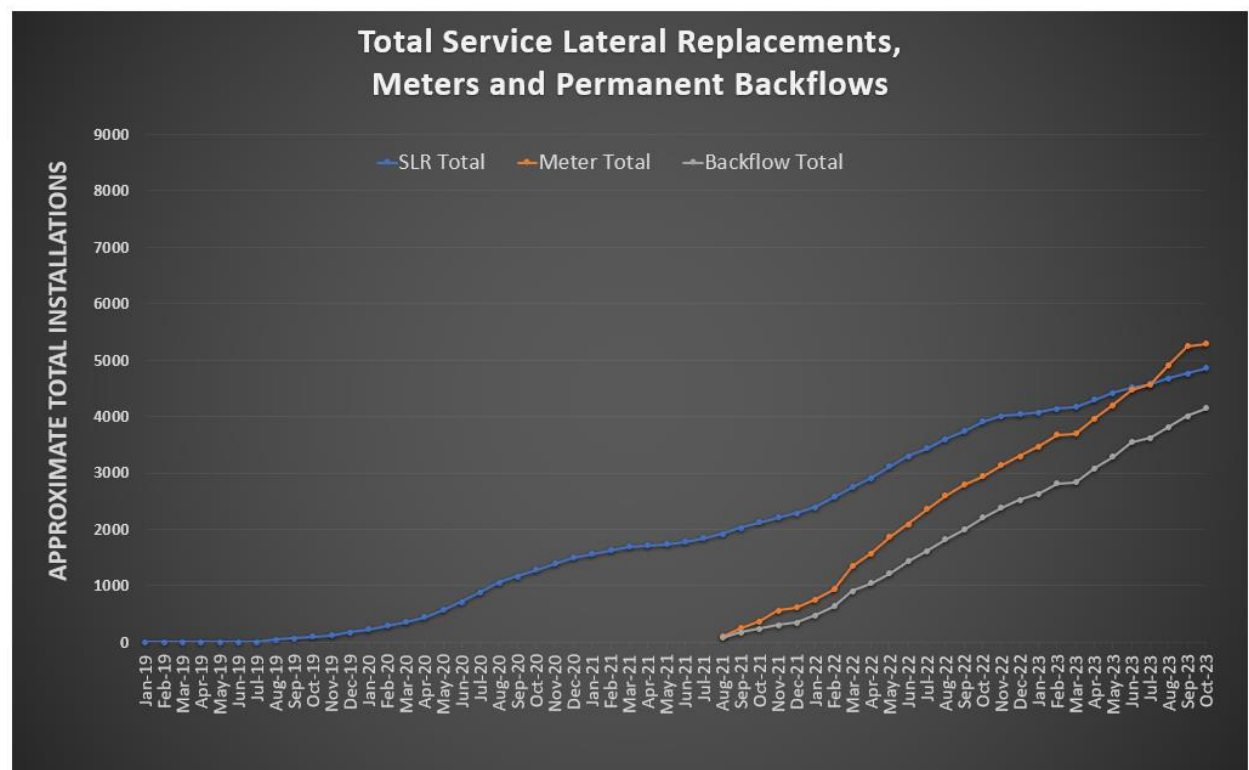
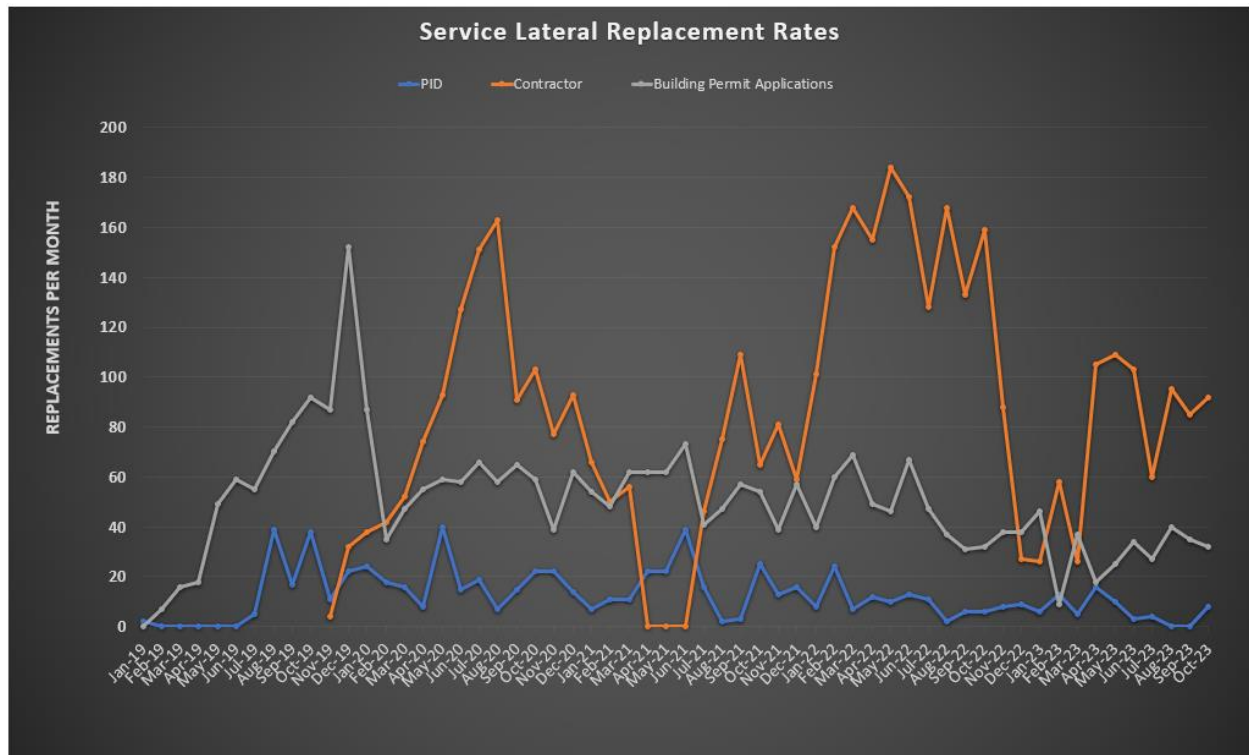
Water Supply Recovery Program Update

Meter Installation and Service Lateral Replacement Program



- In October the MISLR 2 and 3 Projects installed:
 - 92 service laterals,
 - 43 meters
 - and 140 backflows
- Focus will remain on 2024 paving priorities for the Town of Paradise project to stay ahead of their work.
- Additional priority installations to support building permits.
- New permit applications at the Town of Paradise down to 32/month.
- MISLR 2 wrapped up in October with remaining coordinated installs.
- Contractor staffing has been adjusted for ongoing work on MISLR 3.

Water Supply Recovery Program Update



Water Supply Recovery Program Update

Main Replacement Project

- Contractor working through the submittal and material procurement process.
- Change Order 1 finalized to update C900 pipe class to match PID's pre-fire standard.
- Change Order 2 finalized to document the material procurement delay.
- On-site work anticipated to begin in March 2024.

Henson Road Culvert Replacement

- Scope and cost in development for survey and design to replace according to grant funding requirements.

Reservoir B Replacement Project

- All underground work has been completed. Tank erection completed.
- Completion of punchlist items to be confirmed in November.
- Tank leakage issue is still being worked towards resolution.
 - Contractor is completing their recommended fix to tank slab cracks: grinding-out and epoxy-filling the concrete cracks. Work is expected to be complete by Thanksgiving.
 - The tank cleaning, filling, disinfection and leak test will be re-performed in November.
 - The contractor is inspecting the condition of the subsurface of Tank B-2 with ground penetrating radar (GPR) to confirm its integrity following the initial leak test event.



Zone A Pump Station and Transmission Main Project

- All Transmission Main work is complete and ready for tie-in to the distribution system.
- Slurry seal work at Pine Needle/Skyway is complete.
- Excavation for the pump station at the WTP site is complete.
- Pump cans (underground housings for vertical turbine pumps) have been delivered to the site and are being set.
- Pump station foundation, including slurry fill below structure footing, and construction of the pump station structure, piping, etc. are underway.



Program Management Budget

- Work continues to be on-budget through the end of 2023.
- Contract Amendment for services in 2024 and 2025 will be on the Board Agenda for the December meeting.



NOVEMBER 15, 2023

Post-Fire Recovery Update

FEMA Public Assistance (PA) – DR-4407 (Camp Fire Major Disaster Declaration)

The FEMA PA Program provides reimbursements for costs incurred while responding to and recovering from a Presidentially declared major disaster. For this event, the federal cost share was 90% on Emergency Work projects (Categories A-B) and 75% on Permanent Work projects (Categories C-G). CalOES covers 75% of the remaining local cost share, so they pay 7.5% and 18.75% respectively. This typically leaves PID with 2.5% and 6.25% respectively.

For this event, PID was able to claim donated resources and offset the entire local cost share on the emergency work projects. In addition, some of the funding from the Drinking Water State Revolving Fund (DWSRF) is offsetting the local cost share on the major PWs for repairing the water system as well as the replacement Reservoir B when FEMA denied the mitigation proposal. With all funding combined, PID is now only paying a local cost share on recovery-related projects of approximately 0.3%.

Upcoming priorities and recent developments include:

- **Financial Dashboard Development** – We have some issues moving forward with Ingenious Build, and are working towards either resolution with forward progress or a new system.
- **Pursuing FEMA BRIC grant for Magalia Dam Construction** – The BRIC NOI was successfully submitted Friday, August 18. We received an initial list of critiques and suggestions for updates from CalOES. CalOES has approved the NOI and we are putting together the application that is due on December 13th. CalOES is seeming more supportive as we are a better fit for the climate and economic justice scoring criteria.
- **Discussions with Butte County for Magalia Dam Construction** – We met with Butte County Public Works on October 20th and they were not interested in supporting the project but suggested the Butte County Planning Commission might be interested in hearing about it.
- **CDBG-DR Subapplications** – The subagreement is pending legal review with Minasian. Currently finalizing revised project estimates and projects to submit.
- **Pending Reimbursement Requests** – We are continuously working with CalOES reviewers to clarify documentation and finalize costs on multiple projects. CalOES has begun review of the first reimbursement request for PW 333.

Following are status summaries for each project awarded by FEMA under Public Assistance:

PW 3	GP 72826	B	Emergency Response/Protective Measus
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Obligated:	\$ 1,654,810.97
Fed Share:	\$ 1,489,329.88
State Share:	\$ 124,110.82
Received:	\$ 1,637,185.00
Pending:	\$ 23,744.30

Project is in closeout with CalOES. Overpayment will be addressed at closeout.

PW 15 GP 84775 Z PID Management Costs

Obligated:	\$ 68,779.00
Fed Share:	\$ 68,779.00
Pending Amend:	\$ 4,105,052.56
Received:	\$ 0.00
Pending:	\$ 4,105,052.56

Project 84775/PW 15 was obligated when PID only had PW 3 obligated at \$1,375,597.87, leading to PW 15 having a total value of 5% of that amount or \$68,779.89. Since then, PID has had an additional 12 obligations for a total of \$82,101,045.19, resulting in a need for an amendment to add 5% of that value, or \$4,105,052.26. Amendment was requested on 4/18/22.

PW 33 GP 84011 A Arborist

Obligated:	\$ 10,210.00
Fed Share:	\$ 9,189.00
State Share:	\$ 765.75
Received:	\$ 9,955.00
Pending:	\$ 0.00

Project will be closed out when the last small project is closed out.

PW 138 GP 90006 F Water Storage Tanks and Supporting Systems

Obligated:	\$ 0.00
Fed Share:	\$ 0.00
State Share:	\$ 0.00
Received:	\$ 0.00
Pending:	\$ 0.00

Project was written as a placeholder for potential damages to tanks and associated systems. None were found, and if any had been found, insurance would have covered it and the deductible is on the equipment/vehicles PW.

PW 221 GP 94422 G District-wide Fencing

Obligated:	\$ 100,000.00
Fed Share:	\$ 75,000.00
State Share:	\$ 18,750.00
Received:	\$ 93,750.00
Pending:	\$ 0.00

Project was initially written for \$578,655.00 with an insurance reduction of \$478,655.00, have received all funding from FEMA and CalOES. Project is pending completion of Reservoir B, so all damaged funding can be completed under one project. Project can then be closed out upon completion of all small projects.

PW 238 GP 94415 C Road Damage Caused by Fire (Henson Road Culvert)

Obligated:	\$ 134,173.00
Fed Share:	\$ 100,629.75
State Share:	\$ 25,157.44
Received:	\$ 2,516.00
Pending:	\$ 123,271.19

Project was written for repair costs of \$84,263.00 and 406 mitigation costs of \$49,910.00 to armor the culvert openings with rock. PID has reassigned this to Water Works, and the RFP was issued for the design of the project.

PW 257 GP 84049 B Contaminant Testing by PID

Obligated:	\$ 1,781,833.70
Fed Share:	\$ 1,603,650.33
State Share:	\$ 133,637.53
Received:	\$ 1,576,922.00
Pending:	\$ 160,365.86

Most of project funds have been received due to the project being complete at the time of obligation. Remainder (10% of fed share) will be held against closeout of the disaster. We have submitted documentation, both for corrections and additional costs, for a net increase of \$530,892.56.

PW 265 GP 96404 E Vehicles, Equipment and Buildings

Obligated:	\$ 35,942.32
Fed Share:	\$ 26,956.74
State Share:	\$ 6,739.19
Received:	\$ 33,695.00
Pending:	\$ 0.00

Project was written for \$883,769.59, with a reduction for anticipated insurance proceeds of \$847,827.27. Has been fully paid as a small project. PID staff are working through the list of minor repairs and purchases that need to be made to complete this project. **APTIM's Meera Narayanan-Pandit is continuing to work with PID staff in reconciling the project to date.**

PW 321 GP 76334 F Reservoir B

Obligated:	\$ 347,704.00
Fed Share:	\$ 260,778.00
State Share:	\$ 65,194.50
Received:	\$ 0.00
Pending:	\$ 325,972.50

Project was written for replacement of Reservoir B in its pre-disaster form with cover and liner. FEMA rejected 406 mitigation proposal to replace with steel tanks. DWSRF is funding the full project, so FEMA funds aren't needed here.

PW 326 GP 91767 Donated Resources

Obligated:	\$ 382,983.85
Fed Share:	\$ 344,685.47
State Share:	\$ 28,723.79
Received:	\$ 376,281.00
Pending:	\$ 2,871.74

FEMA allows donated resources projects as a way to offset the local cost share. PID received \$1,090,910.05 in donated water, but the obligation is limited to the amount that will result in matching PID's local share on other Category A and B projects. Unsure why the CalOES' payments resulted in an overpayment – this can be resolved at disaster closeout.

PW 328 GP 94420 D Paradise and Magalia Dam Burn Damage

Obligated:	\$ 35,631.32
Fed Share:	\$ 26,723.42
State Share:	\$ 6,680.85
Received:	\$ 33,404.00
Pending:	\$ 0.00

Project was written for minor repairs to the surface of Magalia Dam as well as damage to the conveyance pipe between the dam and WTP. Project referenced Paradise Dam as a placeholder, but no damage was observed. As a small project, this has been completed, but the scope of work will need to be completed before closing all small projects.

PW 332 GP 94494 F Meters, Meter Boxes and AMI System

Obligated:	\$ 2,087,334.00
Fed Share:	\$ 1,565,500.50
State Share:	\$ 391,375.00
Received:	\$ 39,138.00
Pending:	\$ 1,917,737.50

Project was written for replacement of meters, meter boxes and the automated meter reading system, with a 406 mitigation proposal to replace plastic meters and boxes with brass meters and concrete boxes. Initial reimbursement requests are on hold pending further insurance information.

PW 333 GP 94496 F Service Laterals

Obligated:	\$ 42,793,182.00
Fed Share:	\$ 32,094,886.50
State Share:	\$ 8,023,721.62
Received:	\$ 802,372.00
Requested:	\$ 13,401,025.98
Pending:	\$ 25,915,210.14

Project was written for testing and replacement of the rest of the FEMA-eligible service laterals, after PW 355 covered the initial phase of service lateral replacements from the Sutton contract. This project includes a 406 mitigation proposal for backflows for the quantity of laterals granted (the remainder of backflows are covered on project 349). This project includes the latter half of the Sutton contract and the RCI contract. An improved project is being formulated to shift testing costs into replacing more laterals. Initial RFR submitted 1/18/23.

PW 349 GP 130152 F Water Mains

Obligated:	\$ 29,873,110.00
Fed Share:	\$ 22,404,832.50
State Share:	\$ 5,601,208.12
Received:	\$ 560,120.00
Pending:	\$ 27,445,920.62

Project was written for replacement of mains determined to be damaged by testing, as well as a 406 mitigation proposal for the remainder of backflows. This project is only recently started and initial reimbursement requests will be formulated soon.

PW 355 GP 130189 F Initial Service Laterals (pre-FEMA-428 Program)

Obligated:	\$ 4,587,432.00
Fed Share:	\$ 3,440,574.00
State Share:	\$ 860,144.00
Received:	\$ 4,386,732.00
Pending:	\$ 86,014.00

Project was written for the initial phase of service lateral replacements from the Sutton contract. FEMA's titling of the project as "completed outside of 428" led to confusion of CalOES and early payment of funds – notified CalOES of the issue and they decided not to pursue correction of the issue since the work had already been completed. Working on resolving the Sutton change orders to get ready for project closeout – the increase in eligible costs will be submitted at closeout for extra reimbursement, which is expected to surpass the amount of CalOES' overpayment. Sutton issues appear to be resolved and we will file for reimbursement as soon as final payment is processed.



FEMA Hazard Mitigation Grant Program (HMGP)

The FEMA Hazard Mitigation Grant Program is a competitive grant program tied to major disaster declarations. The program provides mitigation opportunities for facilities that were not damaged by the event, but that could be hardened against or protected from a similar type of event.

For the DR-4407 (2018 Camp Fire) HMGP cycle, PID submitted four applications. One application was allowed to partially move forward as an Advance Assistance HMGP grant, for the study and design of the options to restore Magalia Dam. For the DR-4344 (2017 Wildfires) HMGP cycle, PID had submitted an application for a generator at the WTP, as well as pipeline and pump stations improvements. This grant was suddenly revived in early 2022, and we just received the formal award notice this month.

The HUD CDBG-MIT program (discussed below) offers opportunities to provide local cost match for HMGP projects, so we will be submitting both HMGP grants for match funding when the application window opens. APTIM's CDBG advisors are working to put together guidance on any project modifications in order to be compliant with HUD-CDBG (such as Davis-Bacon provisions in RFPs and contracts).

DR-4344-PJ0619

Paradise Water Supply Hazard Mitigation Project

Awarded:	\$ 6,259,315.00
Federal Share:	\$ 4,694,486.25
PID Share:	\$ 1,564,828.75
Requested:	\$ 1,246,504.13
Received:	\$ 841,390.35
Pending:	\$ 4,694,486.25

This grant was just awarded in September 2022, for a new generator at the WTP, plus pipeline and pump station upgrades for Zone A. This is also known as the ZAPS Project. PID staff are working to review/revise the 5-year-old cost estimates to determine if a budget increase request is needed. The RFPs for this scope have been reviewed for FEMA compliance, and we have located the HUD terms and conditions to add as well.

DR-4407-PJ0278

Advance Assistance – Magalia Dam Study and Design

Awarded:	\$ 1,610,575.00
Budget Increase:	\$ 916,602.58
Total Expected:	\$ 2,527,177.58
Federal Share:	\$ 1,617,416.23
PID Share:	\$ 909,761.35
Requested:	\$ 519,445.22
Received:	\$ 350,625.52
Remaining:	\$ 1,266,790.71

The study phase of this grant was completed in early 2022. PID has received an extension to the period of performance and requested a budget increase approval from FEMA. We've been informed that the available bucket of funding is smaller but that PID may request the full amount remaining, and have revised our request to do so. The design contract was approved, so that design may be accomplished in time to apply for the 2023 BRIC funding cycle. CalOES has asked that coring sample work be stopped at the request of FEMA. Call scheduled with FEMA and CalOES on July 13th to discuss path forward.

Expect the Extraordinary.



California Drinking Water State Revolving Fund (DWSRF)

The California DWSRF has awarded funding to PID, through a mixture of ASADRA and other funding sources, to accomplish the following tasks:

- Fund the Almond Street project (completed)
- Fund the replacement of Reservoir B (begun)
- Fund the local cost share of FEMA PA PWs related to the recovery of the water system (PWs 332, 333, 349 and 355)

We are working to pull all the documentation and develop a management plan that meets requirements for reporting, reimbursement, and any scope or schedule changes. We are also looking to pursue additional DWSRF grants to fund the added cost of rock removal at Reservoir B. We met with Bow Reilly at DWSRF, who confirmed that additional funding is available and can be requested to cover cost increases. **We are working with WaterWorks staff to calculate budget revisions and make the request for additional funding.**

HUD Community Development Block Grants (CDBG-DR, -MIT)

California Department of Housing and Community Development (HCD) released the allocations for CDBG-Disaster Recovery (CDBG-DR) in August 2022. Of the \$14M we submitted in requests, we are expecting an allocation of approximately \$3.25M. One project (the portable water treatment truck) was ruled ineligible. Several projects contained scope elements that are in the newly awarded HMGP grant, so those will be included with the Magalia Dam HMGP grant in our submission to CDBG-MIT for FEMA HMGP Match.

We met with the Town of Paradise and HCD on Wednesday 11/16/22 to discuss how information and financials will flow between PID, the Town (as the main applicant) and HCD. As of that meeting, the Town and HCD had not finalized their agreement, and our next steps are based on the finalization of that documentation, which is not expected until early next year. We met with HCD on 1/17/23 to discuss the form to prove Urgent Need and contract requirements (David-Bacon, Section 3, etc) for work we plan to fund through CDBG-DR and CDBG-MIT. On 2/13/23, the Town indicated they still hadn't seen an MSA to review. As of 7/5/23, Requested CDBG Project Descriptions have been provided to the Town. **The subagreement is pending legal review with Minasian. Currently finalizing revised project estimates and projects to submit.**

FEMA Building Resilient Infrastructure and Communities (BRIC)

FEMA's BRIC Notice of Intent (NOI) window ended November 11, 2022. We had intended to submit the Magalia Dam construction project in this cycle of BRIC funding, but CalOES staff informed us that the project would not be selected for this cycle due to our current schedule for having a completed, shovel-ready design. They did inform us that FEMA had held back some of the recent legislative additions to BRIC so that next year would be comparable to this year's allocation, so our current plan is to submit for next year's cycle (NOI window expected in Aug-Sep 2023). We are also seeking additional funding sources to reduce our requested cost share on BRIC, thus making us more competitive. CalOES mitigation staff provided guidance on options to pursue BRIC funding. Initial feedback from the meeting is the allocation this year is anticipated to be significantly lower than last year and will be more competitive to obtain. The BRC NOI was submitted Friday 8/18. **CalOES has approved the NOI and we are putting together the application that is due on December 13th. CalOES is seeming more supportive as we are a better fit for the climate and economic justice scoring criteria.**

Expect the Extraordinary.

SPECIAL DISTRICT LEADERSHIP ACADEMY CONFERENCE OVERVIEW

This conference content is based on CSDA's Special District Leadership Academy (SDLA) groundbreaking, curriculum-based continuing education program, which recognizes the necessity for the board and general manager to work closely toward a common goal. SDLA provides the knowledge base to perform essential governance responsibilities and is designed for both new and experienced special district board members.

Attend for the first time and complete all four modules of the Special District Leadership Academy:

- Governance Foundations
- Setting Direction/Community Leadership
- Board's Role in Human Resources
- Board's Role in Finance and Fiscal Accountability

Already completed the academy? Take a deep dive into common opportunities and challenges facing special districts by registering for the advanced track.

Save the Dates! 2024 CSDA Conferences

Special District Leadership Academy Coastal
February 4 - 7, 2024 | San Luis Obispo

SDRMA Spring Education Day
March 26, 2024 | Sacramento

Special District Leadership Academy South
April 14 - 17, 2024 | San Diego Bay Downtown

Special Districts Legislative Days
May 21 - 22, 2024 | Sacramento

General Manager Leadership Summit
June 23 - June 25, 2024 | Anaheim

CSDA Annual Conference & Exhibitor Showcase
September 9 - 12, 2024 | Indian Wells

Board Secretary/Clerk Conference
October 21 - 23, 2024 | San Diego

Special District Leadership Academy North
November 3 - 6, 2024 | San Rafael



Registration opening soon!
<https://qrco.de/bddc8t>

2024 Special District Leadership Academy San Luis Obispo

Comprehensive Governance Leadership
Conferences for Elected and Appointed
Directors/Trustees

This conference content is based on CSDA's Special District Leadership Academy (SDLA) groundbreaking, curriculum-based continuing education program, which recognizes the necessity for the board and general manager to work closely toward a common goal. SDLA provides the knowledge base to perform essential governance responsibilities and is designed for both new and experienced special district board members.

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- Board's Role in Finance and Fiscal Accountability

NOTE: You must complete the first-time attendee track to qualify for SDLF Certificate in Special District Governance. There will be no Returning Attendee Track at this conference (please register for the San Diego or San Rafael conferences).

Sign In

Username

Password

SIGN IN

[Forgot username?](#) |

[Forgot password?](#)

Detailed schedule can be found on the [SDLA Website](#).

First-Time Attendee Schedule of Events

Sunday 2/4/24

5:30 - 7:00 p.m. Registration and Networking
Reception

Monday 2/5/24

8:30 a.m. - 4:30 p.m. First-Time Attendee Sessions
5:30 - 7:30 p.m. Sip and Savor Evening Reception

Tuesday 2/6/24

8:30 a.m. - 4:00 p.m. First-Time Attendee Sessions
Open Evening

Wednesday 2/7/24

8:30 a.m. - 12:00 p.m. First-Time Attendee Sessions
12:00 p.m. Graduation Certificate Distribution

Pricing:

Early Bird Registration on or before January 11,
2024:

\$720 CSDA Member

\$1,080 Non-member

Regular Registration after January 11, 2024:

\$775 CSDA Member

\$1,160 Non-member

Send additional attendees from the same district and receive discounted pricing per additional attendee! Call to obtain discounted pricing for attendees 2, 3, 4, etc.

Interested in Exhibiting/Sponsoring? Check out all of the opportunities and register [here](#).

Need help paying for this conference? Scholarship funds are available from the Special District Leadership Foundation (SDLF). There's no district budget limit and you do not need to be a CSDA member to receive funds.

Apply [here](#)

HOTEL ROOM RESERVATIONS: CSDA room reservations in the CSDA room block start at the rate of \$149 plus tax and fees per day. The room reservation cut-off is January 11, 2024; however, space is limited and may sell out before this date. Information regarding hotel reservations and link to book in the CSDA room block will be emailed within 24 hours of registration.

Cancellations must be in writing and received by CSDA no later than January 11, 2024, at 5:00 p.m. All cancellations received by this date will be refunded less a \$75 cancellation fee. There will be no refunds for cancellations made after January 11, 2024. Substitutions are acceptable and must be done in writing no later than January 26, 2024, at 5:00 p.m. Please submit any cancellation notice or substitution requests to meganh@csda.net or fax to 916-520-2465.

When 2/4/2024 - 2/7/2024

Where Embassy Suites by Hilton San Luis Obispo
333 Madonna Rd

Program Options

Sunday, 04 February 2024



Certificate in Special District Governance

2/4/2024

Register as a First-time Attendee

2/4/2024

Register as a Returning Attendee

2/4/2024