



March 09, 2023

To: Pablo Arroyave, Chief Operating Officer

From: Bob Martin, Facilities O&M Director

Subject: O&M Report for February 2023

Operations Department

The C.W. "Bill" Jones Pumping Plant (JPP) operated with 3-5 units for the month of February. Due to extreme amounts of debris at the Tracy Fish Collection Facility (TFCF), there were 4 days during the month where pumping was temporarily reduced at JPP to below 3 units. These reductions were short in duration to allow the crews to clean the debris from the trash racks at the TFCF. The average rate of pumping for the JPP during the month was 3679 cfs.

Total pumping at the JPP for the month of February was 204,326 acre-feet. The O'Neill Pump/Generating Plant (OPP) generated 70 acre-feet, and pumped 167,895 acre-feet during the month of February. 11,554 acre-feet was pumped at the Delta-Mendota Canal/California Aqueduct Intertie Plant (DCI) and 0 acre-feet was reversed from the California Aqueduct to the DMC for the month of February.

The Federal share in the San Luis Reservoir at the end of February was 672,705 acre-feet as compared to 313,886 acre-feet for the end of February 2022.

During the month of February, releases from Friant Dam ranged from 461 to 841 cfs with 23,047 AF entering the Mendota Pool. Flows past the Mendota Dam for the San Joaquin River Restoration Program (SJRRP) were 11,693 acre-feet for February.

Canal Operations staff performed open channel and closed-pipe flow measurements, routine patrols, storm patrols, wasteway inspections, bi-weekly meter readings, water samples, well soundings, and routine meter maintenance during the month of February.

Control Operations switching/clearance placements performed this month:

- C-22-JP-79 Volta West Well repair
- C-22-JP-91 JPP Unit 3 Rewind/Annual Maintenance
- C-22-JP-92 JPP Unit 3 Suction elbow
- C-22-JP-93 OPP Unit 1 Distributor oil leak repair
- C-23-DM-06 DMC MP 31.31-L Installed new turnout gate
- C-23-ON-07 OPP Unit 3 Vibration inspection
- C-23-JP-08 JPP Unit 4 Exciter cleaning
- C-23-JP-09 JPP Unit 5 Exciter cleaning
- C-23-JP-10 JPP Unit 1 Exciter cleaning

Plant Maintenance Department

The Plant Maintenance crews worked on the following projects this month:

Electrical/C&I Staff:

- JPP Unit 1 brush holder replacement
- JPP Unit 1, 2, 5 & 6 exciter cleaning and brush inspection
- JPP Unit 4 air vent and bypass valve maintenance
- JPP Unit 4 pump bearing high temperature alarm troubleshoot and repair
- JPP Unit 5 Wheel Pit flood alarm repair
- JPP industrial water tank indication light repair
- JPP flood alarm PM
- JPP trash rake rehabilitation
- JPP center discharge tube indication repair
- TFO Sandblast Building heater replacement
- TFO Gate PM's
- DMC Check 1-12 UPS battery system PM's and repairs
- DMC Check 21 gate 1 troubleshoot and repair
- DMC Checks 14,15 & 16 backup battery investigation and repair
- DMC McCrometer flow meter troubleshooting and repair
- DMC Check 1 communication and motor PM
- DCI Unit 3 & 4 commissioning assistance
- OPP Unit 3 vibration inspection
- OPP domestic water tank level transducer bracket fabrication
- OPP portable lighting cord repairs
- OPP crane PM's
- OPP compressor PM's
- OPP rooftop light repairs and photo cell replacement
- OPP exterior lighting repairs
- OPP GFCI repairs
- LBAO lighting investigation and repairs
- LBFO PM's
- 2023 Confined Space Rescue Training
- DMC check gate spare motor rehabilitation (bearings and caps)
- OPP domestic water tank control programming
- Programming Accusonic 8510+ flow meters
- OPP SCADA/web portal graphics
- OPP Unit 1 vane transducer investigation and calibration
- OPP Unit 2 vane position motor troubleshoot and investigation
- OPP SEL Unit annunciator programming
- DMC Check 15 upstream elevation investigation and repair
- OPP Plant PM's
- LBAO server/UPS electrical plug installation
- OPP lighting upgrades

Mechanical Staff:

- JPP trash rack cleaning
- JPP sand filter PM
- JPP oil room PM
- JPP spare Kinney strainer rehabilitation
- JPP trash rake rehabilitation

- JPP machinery PM
- JPP plant air compressor PM
- JPP east bathroom repairs
- JPP Unit 1 pump oil piping repairs
- JPP Unit 2 Kinney strainer piping support repair
- JPP Unit 3 rewind support
- JPP Unit 3 hose bib repair for the cooling water supply line
- JPP Unit 5 wheel pit eductor and float alarm testing
- Water Treatment Plant float valve replacement
- Installed a 4" industrial water line
- DCI check valve dampers rehabilitation
- Routine sandblast/painting
- JPP trash rake rehabilitation
- OPP 5 ton stop log crane test and inspection
- Siphon building fan repairs
- OPP penstock exhaust fan repairs
- OPP Plant PM's
- OPP Plant checks and back wash filters
- OPP Unit 3 vibration inspection
- OPP Unit 6 siphon breaker Bailey valve replacement and inspection
- OPP trash rack cleaning
- OPP shop cleanup
- 2023 Confined Space Rescue Training

USBR Support Services

Water Authority crews performed the following work at USBR facilities this month:

- TFCF Hyacinth and debris removal support
- Hyacinth pit intake road repairs
- Hyacinth pit debris management

Civil Maintenance Department

The Civil Maintenance crews worked on the following projects this month:

- Repairs to Salado Creek
- LBFO building PM's
- Provided assistance to LBAO staff
- Bridge and liner repairs at MP 41.49-R
- Quad test of the Altec boom truck
- Storm patrol along the DMC
- Inspect drain inlets, over chutes and culverts
- Garbage collection on DMC and Wasteways
- Chemical and mechanical weed control on DMC and SLD
- Maintenance and repairs to float lines, signs, fences, guard rails, and gates
- Erosion repairs along the San Luis Drain
- Installed new drain along the San Luis Drain at MP 110
- New employee Class A driver training class
- Assisted with louver cleaning at TFCF
- Assisted with Hyacinth removal at TFCF
- Pushed Hyacinth in pits 1,2,3, and 4 for USBR

- San Luis Drain sign repairs and replacement
- Repaired the drain inlet at MP 22.07-R
- Installed three access gates at MP 40.37
- Replaced turnout gate at MP 31.31-L
- Painted over graffiti along the DMC
- DMC pot hole and road repair
- Repaired traffic gate at MP 39.78
- DMC erosion inspection and repair
- Cleaned drain inlets along the DMC
- TFO yard maintenance
- LBFO yard maintenance
- Inspect landscape and irrigation systems at USBR and TFO
- Annual inspection of spalling at Newman Wasteway
- Annual inspection of spalling at Westley Wasteway
- Vehicle Shop air compressor PM's

Engineering Department

The Engineering staff worked on the following O&M projects this month:

- DMC seepage monitoring @ MP 20.15L
- Data management of well readings and creation of Warren Act hydrographs
- DCI U3 & U4 pump installations engineering support
- DCI U3 & U4 SCADA development
- OPP SCADA user station development
- JPP OPERATOR2 server replacement
- OPP Kinney strainer purchase
- DCI cathodic protection system improvement
- TFO & JPP electrical preventive maintenance program
- Ongoing repair to Salado Creek Levee and 41.93 bridge erosion
- Sink hole inspection and investigation at MP 56.18R
- Intake channel erosion repair at MP 1.28
- SPCC Plan for TFO
- Hosted West High School Space & Engineering Academy job shadow

Land Management Activity Summary

The Engineering staff issued four (3) access permits this month:

- Access permit P2302031 was issued to Del Puerto Water District authorizing them to replace the existing pipeline crossing at Milepost 48.62 on the Delta-Mendota Canal right-of-way.
- Emergency access permit P2302042 was issued to Chevron Pipeline allowing them to conduct emergency erosion repair to their existing underground pipeline crossing the DMC at Milepost 1.40 (Byron Hwy).
- Access permit P2302043 was issued to Del Puerto Water District allowing them to repair a leaky meter distribution box at Milepost 50.66-L on the Delta-Mendota Canal right-of-way.

The Engineering staff were involved with the following land management projects this month:

- Orestimba Creek Recharge Project
- City of Patterson – Roger Road bridge replacement

Safety Department

The Safety Department worked on the following items this month:

- Provided Job Hazard Analysis support for the crews
- Assisted Robin Flint, JPIA Risk Management with a tour of Tracy Facilities for a facilities risk assessment
- Sent out Weekly Safety Tailgate Topics:
 - 2-1-2023 Eye Protection
 - 2-2-2023 Hearing Conservation
 - 2-3-2023 Respiratory Protection
 - 2-4-2023 Slips, Trips and Falls
- Provided Safety Message for January 2023 Water Authority Newsletter
- Replace expired first aid kit contents with new first aid kit refills
- Provide Confined Space Rescue Team annual drill training at OPP
- Presented Safety Training at Quarterly Safety Meeting

Procurement and Work & Asset Management Department

The Work & Asset Management Department worked on the following items this month:

- Continuous staff training and support for newer employees
- Performed annual physical inventory counts
- Attended Quarterly Safety Meeting
- Staff worked with maintenance to get additional warehouse roof leaks repaired
- Completed Procurement Activity Report
- Resolved various invoice issues and disputes
- Contracts/PO Agreements/LOA's Status Update:
 - F22-OPP-059 - OPP Main Transformer Rehabilitation – All questions received and responses sent and posted on 2/28
 - F22-JPP-071- UZ11A Switchgear Bushing Box Replacement Materials - WAM and Engineering discussed and prepared Notice To Proceed. Estimated work for phase 2 is September/October 2023.
 - F23-TFO-013, Landscape Maintenance – Received only 1 quote and currently in negotiations with contractor
 - Issued PO5016 for future Workplace Violence response training - \$7,995
 - Issued PO4923 for the purchase of three 2023 Toyota trucks, CMAS contract
 - F23-TFF-017- Tension Arm Repairs, finalized negotiations and edits, preparing for final execution
 - CMAS/Sourcwell - PO5061 issued for John Deere loader purchase - \$217,546.34
 - PO 5129 Issued for aquatic harvesting operation - \$21,700 (for USBR)
 - Issued PO5126 for dive inspection services \$6,465

Ongoing:

- Purchasing in support of the O&M crews, and maintaining/replenishing warehouse stock
- Warehouse receiving, stocking, and distribution
- Invoicing/vendor bills/vendor credits processing/invoice disputes
- Janitorial cleaning & disinfecting per COVID-19 guidelines
- Participated in NetSuite weekly & biweekly meetings
- Contract Management/Administration Activities, including bi-weekly contract update meetings with Engineering staff
- Developing/implementing purchasing/procurement and asset/inventory procedures/boilerplate templates
- Bi-weekly WAM staff meetings to discuss updates/issues
- Contract invoice payment reviews, invoice disputes as needed, invoice payments
- Continuous testing for improvements to procedures in NetSuite, as well as ongoing issues related to NetSuite constraints
- Development of Blanket Contracts and Blanket Purchase Orders/Agreements
- Reviewing/closing out old/open PO's in NetSuite
- Reviewing and marking dead stock inventory for disposal
- Bi-weekly Shepherd meetings

Information Technology Department

The Information Technology Department worked on the following items this month:

- NetSuite
 - User and administration
 - Bi-Weekly Implementation Team meetings
 - Monitor FMT support activities for Netsuite
 - Opened support ticket directly with Netsuite for bundle install error of Shepherd
- Assisted with monthly FAC, WRC and BOD meetings with Zoom
- Desktop support calls
- Server refresh hardware order placed
 - Received and installed into rack
- Upgrading/replacing copiers
 - Caltronics; TAO delivered and installed and LBAO scheduled March 8
- Monitor Symantec Anti-Virus Management Console
- Security updates on servers
- Monitor firewall
- Update additional AV security settings
- Multi Factor Authentication vendor SurePass
- Cyber Security Incidence Response Plan
- Disaster Recovery Plan
- Business Continuity Plan
- Cyber Security Team
- First Net deploying iPhones and iPad SIMS
- MDM IBM (MAAS360) monitoring
- Reviewed Infagard dispatches – FBI Cyber Security group.
- Cyber Security training and webinars
 - Placed order for Darktrace Cyber Security appliance(s)
- WAM servers, prepping for redeployment
- Troubleshoot ongoing Email auto-discover issues after WEB Site move

- Completed Darktrace evaluation for Cyber Security Monitoring
- Support of Water Operations iPads and new app deployments via MDM
- File sharing/collaboration software solutions
- Create deployment packages for Office 2019 and 2021 and install in test environment and deploy to two users for testing in WA environment
- Backup appliance replacement installed to rack
- Research of gate control and request quote from vendor
- Prepare PO's for FY24 budget year
- New user / Mechanical Engineer setup
- Re-organized computer racks and cabling for new servers

HR Department

The Human Resources Department worked on the following items this month:

General Administrative Activities:

- Active Recruitments:
 - Mechanical Engineer, Tracy (continued recruitment)
 - Accountant II, Los Banos
 - Heavy Equipment Operator, Tracy
 - HR Analyst II, Los Banos
- Closed Recruitments:
 - None at this time
- Candidates Selected:
 - Hydro Electric Electrician, Tracy
 - Control Operator, Tracy
- Background checks for PIV cards (continuing)
- New Hire Orientations

Trainings:

- Remain up to date with COVID-19 compliance
- Cyber Security Training (all staff)
- Sexual Harassment Prevention Training (all staff)
- Defensive Driving Training (all staff)

Government Reporting:

- Affirmative Action Reporting – submitted data to Biddle for AA reporting

Ongoing:

- COVID Protocols
- FMLA notices/follow ups
- COBRA notices/follow ups
- Worker's Comp follow ups
- Monthly safety points distribution
- Health benefits eligibility/employee assistance
- Job description updates
- Policy updates
- Maintain OSHA logs for calendar year
- PIV Cards (USBR)
- Wellness program

EXTRAORDINARY O&M & CAPITAL PROJECTS

DELTA-MENDOTA CANAL (DMC)

Bridge Abutment Repair at MP 92.73 (FY21)

Status: PG&E has completed the relocation of the 6-inch gas transmission line that crosses under the MP 92.73 bridge serving the City of Dos Palos. In the process of removing the pipeline from the bridge, PG&E's contractor damaged the concrete stem wall. Staff performed a visual inspection with PG&E inspectors and contractor and determined that the damage is within SLDMWA's capabilities for repair. PG&E has agreed to reimburse SLDMWA the full cost of the repair which is currently scheduled to be completed with the erosion repair.

SLDMWA will be performing erosion and liner repairs under the bridge abutment in Spring 2023; meanwhile the bridge remains closed until repairs are complete.

DMC Subsidence Correction Project

Status: SLDMWA is continuing to work closely with Reclamation on the DMC Subsidence Correction Project and is managing the \$2.4M CDM Smith Feasibility Study contract, and the \$2.7M Terracon Geotechnical contract. The Feasibility Report is expected to be completed in approximately one year, with certain environmental permitting extending longer as needed. The Final Draft Report has been scheduled to be completed by September 2023. Progress this month consisted of addressing comments and finalizing the next round of project reports. The EA/IS has been posted to the SLDMWA and Reclamation websites for a 30 day review period closing on March 14. The 2nd Administration Draft of the Feasibility Study was released for internal review with comments due mid-March. Terracon was awarded the Contract Amendment to complete the final Geotechnical Phases 2 & 3 Exploration in December 2022 and has completed 92% of the CPT's and 19% of the drill holes.

Numerous design data collection efforts have been coordinated and continue to be discussed as time and weather permits. Data collection efforts consist of: field surveys of the DMC and bridges; upper and lower DMC liner inspection; concrete core sampling of check structures; inspection and limits of gate operations of check structures; underwater dive inspection of select DMC structures; and geoarcheological explorations.

The SLDMWA continues to provide support to Reclamation as they manage the construction contract with Unico Services to install the two additional pumps at the DMC/CA Intertie Pumping Plant (DCI). Field work for final commissioning occurred this month. Reclamation is awaiting the final vibration analysis from the contractor in order to provide final acceptance. SLDMWA activities to integrate the pumps into SCADA will occur after final acceptance. It was recently discovered that Reclamation did not complete the required environmental documents to authorize all six (6) pumps operating at once, and they are currently working on expediting the required environmental clearance.

EXTRAORDINARY O&M & CAPITAL PROJECTS

DMC Turnout Flowmeter Upgrade Program – Phase 3

Status: Staff is finalizing the design date for the flowmeters required with this phase. These measurements will be supplied to McCrometer in order to obtain a final quote and a single-source contract will be pursued. Contract is expected to be executed in Spring 2023.

C.W. “BILL” JONES PUMPING PLANT (JPP)

JPP Excitation System & Control Cabinet Modernization (FY18)

Status: SLDMWA is currently in contract with Reclamation through a Letter of Agreement. Reclamation TSC has provided the 60% Technical Specifications and Drawings, while the Engineer’s Estimate will be provided in the 90% package. The 60% package has been reviewed by SLDMWA and Reclamation Design and Construction Branch CGB-250. The 90% package is scheduled for completion in April 2023. Once received, SLDMWA staff will begin putting together the solicitation package.

JPP Wear Ring Purchase (FY22)

Status: No activity

JPP Unit No. 3 Rewind

Status: Jones Unit 3 rewind is underway. The rotor has been removed and placed in the JPP Machine Shop. The rotor poles have been removed and shipped to Texas for refurbishment and non-destructive testing has been completed on the rotor frame. The stator frame has been moved to best fit center location and the machining of the stator frame has been completed to prepare the unit for restacking of the iron laminations. The bottom finger press plates and key bars have been re-installed and the process of restacking the stator core laminations has begun.

TSY Switchgear Building UZ11A Repairs (Unplanned Project)

Status: A ground fault incident occurred in October 2021 that damaged the main feeder switchgear and bushing box in switchgear building UZ11A. Partial repairs were made, and the building is currently energized via adjacent switchgear building UZ8A (or UZ6A depending on circumstance). A two-phase contract was issued to Powell, the original designer and installer of the switchgear building, to supply repair materials (Phase 1), and perform the onsite repair work (Phase 2). Phase 1 supply contract has been completed, which included supplying the replacement bushing box, CTs, surge arresters, etc. Phase 2, onsite installation of the parts, was originally scheduled to occur October 2022 but was delayed when repair materials in Phase 1 were not ready. Phase 2 is now tentatively scheduled to be completed in September 2023, pending approval of a three week outage of units 2 and 6. Note: Unit 3 rewind is scheduled to be completed and back in service prior to starting the field work.

EXTRAORDINARY O&M & CAPITAL PROJECTS

JPP Concrete Slab by Trashrake Dumpster (FY23)

Status: Project is currently in the planning and design phase. A geotechnical investigation was completed by Terracon to characterize the subgrade to ensure an optimum design is pursued. Final geotechnical and structural recommendations were supplied from Terracon. Technical specifications are currently being prepared in order to formally solicit for construction. Design drawings are 90% complete and are currently under internal review. Construction is tentatively scheduled to occur in Spring 2023.

O'NEILL PUMPING/GENERATING PLANT (OPP)

Main Transformers Rehabilitation/Replacement

Status: A Transformer Condition Assessment was performed by TSC in 2019. The transformers were in such poor condition that it was recommended that the transformers were to be refurbished or replaced. A Value Planning Study was conducted in 2020 and concluded to refurbish/rehabilitate the transformers in short term and plan to replace the transformers in the future. Emergency measures were also performed which included replacing (3) obsolete high voltage bushings (2019) and hot oil reconditioning of the in-service transformers (2020) to ensure transformers remained eligible for rehabilitation.

SLDMWA formerly solicited for the rehabilitation of the transformers in March 2022, and only received one proposal that was not of sufficient quality to award a contract from. After issuing a Request for Interest to acquire more contractor interest, a formal RFP was issued on January 3, 2023. A mandatory pre-proposal conference was held on January 31, 2023 with eight (8) contractors in attendance (Note: Two contractors attended the conference during the first solicitation). Questions were received on February 14th and responses were provided February 28th. Proposals are due on March 16th and SLDMWA anticipates going to the board in April to issue the contract. Construction on the spare transformer is tentatively scheduled to start late February 2024, and the system outage at O'Neill PG Plant will still be scheduled in April-May 2024, pending favorable hydraulic conditions. Monitoring transformer insulation fluid continues quarterly with recent results confirming oil is still in good condition.

Arc Flash Hazard Analysis, Facility Rating, & Protective Relays Reviews (Electrical Equipment Periodic Reviews) (FY22)

Status: The field work for all three inspections occurred in FY22. The Facility Rating and Arc Flash Hazard Analysis are complete, with final reports received. The draft Protective Relays Review report was recently received and is being reviewed by staff.

EXTRAORDINARY O&M & CAPITAL PROJECTS

OPP Upgrades (Previously Pump Bowl Modification & Replacement)

Status: Staff has been working with Reclamation to begin the assessments recommended during the value planning study. Reclamation staff is currently putting together a Project Management Plan that will allow us to enter a Letter of Agreement to begin the assessments.

OPP UPS Battery Charging System Replacement (FY22)

Status: Staff is planning on issuing a contract to supply and install the batteries, with the site work occurring during the planned outage for the OPP Main Transformer Rehab. The contract will be issued 6-8 months prior to the planned outage.

OPP Station Service Backup Battery System Replacement (FY23)

Status: This project will be done concurrently with the UPS Battery Charging System Replacement. Staff is planning on issuing a contract to supply and install the batteries, with the site work occurring during the planned outage for the OPP Main Transformer Rehab. The contract will be issued 6-8 months prior to the planned outage.

OPP Accusonic Flowmeter Console Upgrades (FY23)

Status: Consoles have been purchased and received, with 4 of them installed. Staff discovered a faulty communication component on two of the consoles and replacements were recently received and tested. Installation to occur in March.

TRACY FACILITIES (TFO)

TFO Domestic Water Treatment Plant Replacement (FY20)

Status: Project assigned to new mechanical engineer. Work began on equipment selection, layout, and construction phasing.

MULTIPLE FACILITIES

TFO/LBFO/DCI Arc Flash Hazard Analysis (FY22)

Status: No activity this month. The Analysis was conducted by Reclamation TSC through a LOA. The onsite surveys for TFO, LBFO, and DCI were completed in September 2022. SLDMWA provided additional information to TSC regarding emergency generator and LBFO's station service. The Arc Flash Hazard Analysis Reports are expected to be completed by September 2023.

SCADA System Evaluation (FY23)

Status: Site discovery and documentation of the existing SCADA System is ongoing. The development of controls and SCADA standards and best practices is in process. Research is being conducted on how best (with major supply chain issues) to upgrade the system to current standards and then maintain the system with a newly developed 10-year plan. Staff is waiting for parts to conduct concept for checks controls remediation plan. Communication continues to determine if an existing fiber line owned and operated by DWR could be utilized for SLDMWA

EXTRAORDINARY O&M & CAPITAL PROJECTS

communication. Staff is working with vendors evaluating and developing operational technology (OT) cyber security needs and response plan. Work continues to build a controlled area to evaluate and test new hardware and software implementations before going live. Testing on virtual machines for the SCADA environment is underway. Development of a software conversion/rewrite plan is underway. Starting to test some of these ideas in sandbox environment. Staff has developed a remediation plan to meet CISA and federal mandate requirements and will begin testing and implementation as the next step.

TFO O&M Compound, Seal Coat Surfacing & Striping (Including USBR Lot) (FY23)

Status: Preliminary planning began this month.



San Luis & Delta-Mendota Water Authority
OPERATIONS SUMMARY

NOTE: ALL FIGURES ARE IN ACRE FEET

	January-2023	January-2022
JONES PUMPING PLANT - PUMPED	233,060	231,354
DCI PLANT - PUMPED	24,352	24,494
DCI PLANT - RETURNED	0	0
O'NEILL P/G PLANT - PUMPED	212,536	185,961
O'NEILL P/G PLANT - GENERATED	0	0
DMC DELIVERIES	320	7,857
RIVER/WELL/RECYCLE WATER INTO DMC	6,220	4,522
MENDOTA POOL DELIVERIES	11,532	29,067
SHASTA RESERVOIR STORAGE	2,570,300	1,621,400
SAN LUIS RESERVOIR STORAGE	1,277,608	902,344
* FEDERAL SHARE	496,803	314,365

	January-2023	January-2022
SAN LUIS UNIT DELIVERIES	136	8,358
SAN LUIS UNIT WELL WATER	0	0
SAN FELIPE UNIT DELIVERIES	0	4,506

Jones Pumping Plant monthly average = 3,790 cfs



San Luis & Delta-Mendota Water Authority
Monthly Deliveries
January 2023

Date: 2/17/23

<u>District/Other</u>	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Total Pumped @ Jones Pumping Plant	233,060			
Total Pumped @ DCI	(24,352)			
Total Reversed @ DCI	0			
City of Tracy		0	0	0
Byron Bethany I.D.		0	0	0
West Side I.D.		0	0	0
Banta Carbona I.D.		0	0	0
West Stanislaus I.D.		0	0	0
Patterson I.D.		0	0	0
Del Puerto W.D.		9	1	10
Central California I.D. - above check #13		0	0	0
San Luis W.D.- above check #13		0	0	0
Volta Wildlife Mgmt. Area (Fish & Game)		0	0	0
Fish & Wildlife (Volta) Santa Fe - Kesterson		0	0	0
Grasslands W.D. (Volta)		0	0	0
Total Pumped @ O'Neill PP	(212,536)			
Total Generated @ O'Neill PP	0			
Central California I.D. - below check #13		0	0	0
Grasslands W.D. (76.05-L)		0	0	0
Fish & Game Los Banos Refuge (76.05-L)		0	0	0
Fish & Wildlife Kesterson (76.05-L)		306	0	306
Freitas Unit (76.05-L)		1	0	1
Salt Slough Unit (76.05-L)		0	0	0
China Island (76.05-L)		0	0	0
San Luis W.D. - below check #13		0	0	0
Panoche W.D.		1	2	3
Eagle Field W.D.		0	0	0
Oro Loma W.D.		0	0	0
Mercy Springs W.D.		0	0	0
Firebaugh Canal W.D. (D.M.C.)		0	0	0
River and Groundwater well pump-in	3,845			
North Valley Regional Recycled Water Program	2,375			
Change in Canal Storage	(626)			
Wasteway Flushing and Spill	(33)			
Total Available in Delta-Mendota Canal	1,733			
TOTAL DELIVERY FROM DELTA-MENDOTA CANAL	(320)	317	3	320
Theoretical DMC Delivery to Mendota Pool	1,413			
Total DMC Delivery to MP	3,868			
Estimated (Loss) or Gain in DMC	2,455			
Estimated % Loss or Gain in DMC	1.06%			



San Luis & Delta-Mendota Water Authority
Monthly Deliveries
January 2023

<u>District/Other</u>	Total Available Water into System (INCOMING) (Acre Feet)	AG/Refuge Deliveries (Acre Feet)	M & I Deliveries (Acre Feet)	Total Deliveries (OUTGOING) (Acre Feet)
Estimated DMC Inflow to MP	3,868			
Mendota Pool Groundwater Well Pump-In	139			
(+)SJRR Releases into Mendota Pool	3,907			
(+)Kings River Flood Releases into the Mendota Pool	0			
<u>Mendota Pool Delivery Information</u>				
<u>Exchange Contractors:</u>				
Central California Irrigation District (CCID)		1,381	0	1,381
Columbia Canal Company (CCC)		0	0	0
Firebaugh Canal Water District (FCWD)		60	0	60
San Luis Canal Company (SLCC)		0	0	0
<u>Refuge:</u>				
Conveyance Losses		215	0	215
Calif Dept of F/G-LB Unit (CCID)		0	0	0
Calif Dept of F/G-LB Unit (SLCC)		145	0	145
Calif Dept of F/G-Salt Slough Unit (CCID)		0	0	0
Calif Dept of F/G-China Island Unit (CCID)		0	0	0
US Fish & Wildlife-San Luis Refuge (SLCC)		2,767	0	2,767
US Fish & Wildlife-Freitas (CCID)		2	0	2
US Fish & Wildlife-Kesterson (CCID)		532	0	532
Grasslands WD (CCID)		0	0	0
Grasslands WD (SLCC)		658	0	658
Grasslands (Private)		20	0	20
San Luis WD Conveyance (CCID)		0	0	0
<u>San Joaquin River Restoration:</u>				
SJRR		3,907	0	3,907
<u>Other: (see MP Operations Report)</u>		1,845	0	1,845
<i>Total Available Water in Mendota Pool</i>	7,914			
TOTAL DELIVERY FROM MENDOTA POOL	(11,532)	11,532	0	11,532
*Estimated (Loss) or Gain in Mendota Pool	3,618			
*Estimated % Loss or Gain in Mendota Pool	45.72%			
Total System Delivery	(11,852)			
*Total Estimated System (Loss) or Gain	6,073			
*Total Estimated % System Loss or Gain	2.53%			

Special Notes: * Due to Flood Releases from Friant Dam



Jones Pumping Plant
January - 2023

Date	# OF UNITS	TIME ON/OFF	AVG DAILY CFS
1	4	CONTINUOUSLY	3498
2	4	CONTINUOUSLY	3517
3	4	CONTINUOUSLY	3526
4	4	CONTINUOUSLY	3524
5	4	CONTINUOUSLY	3504
6	4	CONTINUOUSLY	3505
7	4	CONTINUOUSLY	3479
8	4	CONTINUOUSLY	3506
9	4	CONTINUOUSLY	3518
10	4	CONTINUOUSLY	3558
11	4	CONTINUOUSLY	3518
12	4-5, 5-4, 4-5	0800, 0815, 1300	3779
13	5	CONTINUOUSLY	4060
14	5	CONTINUOUSLY	4148
15	5	CONTINUOUSLY	4165
16	5-4	0736	3683
17	4	CONTINUOUSLY	3507
18	4-2, 2-4	0558, 1159	3086
19	4-5	0001	4101
20	5	CONTINUOUSLY	4126
21	5-2, 2-5	0340, 1301	3606
22	5	CONTINUOUSLY	4103
23	5	CONTINUOUSLY	4179
24	5	CONTINUOUSLY	4176
25	5	CONTINUOUSLY	4135
26	5-4	0646	3674
27	4-5	1945	3605
28	5	CONTINUOUSLY	4198
29	5	CONTINUOUSLY	4189
30	5	CONTINUOUSLY	4164
31	5	CONTINUOUSLY	4163
AVG CFS for the month			3790



NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

January 2023 WA Credits

Date: 2/14/2023

CREDITS UNDER WARREN ACT CONTRACTS									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
3.32-R1	0	0	1	0	BBID	0	0	0	0
3.32-R2	0	0	1	0	BBID	0	0	0	0
3.32-R3	12,798	12,798	1	0	BBID	0	0	0	4,572
13.31-L	4,804	4,804	1	0	BBID	0	0	0	0
15.11-R	2,974	2,974	1	0	BBID	0	0	0	213
20.42-L	40,797,750	41,456,293	1	0	BCID	0	0	0	13,883
20.42-L	40,797,750	41,456,293	1	0	USBR/FWA	2,021	0	2,021	5,586
21.12-L	990	990	1.01	0	DPWD	0	0	0	0
21.86-L	770	770	1	0	DPWD	0	0	0	0
24.38-L	2,905	3,003	1.04	0	DPWD	102	(5)	97	375
29.95-R	1,334	1,334	0.87	0	DPWD	0	0	0	0
30.43-L	7,464	7,464	1	0	DPWD	0	0	0	0
30.43-R	2,123	2,123	0.92	0	DPWD	0	0	0	0
30.95-L	2,149	2,149	1.03	0	DPWD	0	0	0	222
31.31-L1	87,615	87,615	1	0	WSTAN	0	0	0	12,618
31.31-L2	87,615	87,615	1	0	DPWD	0	0	0	5,054
31.31-L3	87,615	87,615	1	0	PID	0	0	0	0
31.60-L	8,183	8,183	0.93	0	DPWD	0	0	0	0
32.35-L	1,794	1,794	0.86	0	DPWD	0	0	0	0
33.71-L	751	751	0.94	0	DPWD	0	0	0	0
36.80-L	1,847	1,847	1	0	DPWD	0	0	0	0
37.10-L	3,683	3,787	0.94	0	DPWD	98	(5)	93	384
37.32-L	2,653	2,653	0.91	0	DPWD	0	0	0	0
42.50-R	1,034	1,034	0.96	0	DPWD	0	0	0	0
42.53-L	6,793,472	6,833,470	1	0	PID	313	(16)	297	10,018
42.53-L	6,793,472	6,833,470	1	0	DPWD	0	0	0	0
42.53-L	6,793,472	6,833,470	1	0	USBR/FWA	605	0	605	605
43.22-L	55	55	1	0	DPWD	0	0	0	0
48.97-L	3,624	3,853	0.95	0	SLWD	218	(11)	207	884
50.46-L	5,819	5,896	1.07	0	DPWD	82	(4)	78	738
51.00-R	297	297	0.89	0	DPWD	0	0	0	0
51.66-L	910	910	0.98	8	DPWD	8	0	8	211
52.40-L	1,481	1,481	1	0	DPWD	0	0	0	66
58.28-L	3,269	3,319	1.02	0	SLWD	51	(3)	48	478
58.60-L	917	917	0.96	0	DPWD	0	0	0	0
58.73-R	465	490	1	0	DPWD	25	(1)	24	56
64.85-L	1,662	1,662	0.72	0	DPWD	0	0	0	0
UPPER DMC SUB TOTAL								3,478	55,963



NON-PROJECT WATER CREDITS REPORT

(ALL FIGURES IN ACRE FEET)

January 2023 WA Credits

CREDITS UNDER WARREN ACT CONTRACTS									
Turnout	Start Meter Reading	End Meter Reading	Factor	Adjust	District	Total	Less 5%	Month	Year
78.31-L	4,469	4,469	1.08	0	SLWD	0	0	0	0
79.12-R	5,812	5,812	0.91	0	SLWD	0	0	0	249
79.13-L	1,021	1,084	1	0	SLWD	63	(3)	60	438
79.13-R	4,928	4,928	1.08	0	SLWD	0	0	0	17
79.60-L	5,391	5,686	0.84	0	SLWD	248	(12)	236	1,182
79.60-R	0	1,724	1	0	CCID	0	0	0	0
79.60-R	0	1,724	1	0	GWD	1,703	(85)	1,618	1,618
79.60-R	0	1,724	1	0	SLWD	21	(1)	20	20
80.03-L	834	834	0.94	0	SLWD	0	0	0	128
80.03-R	717	717	1.05	0	SLWD	0	0	0	0
98.60-R	14,068	14,194	1	(51)	PANOCH/MS	75	(4)	71	1,534
98.74-L	5,695	5,695	1.14	0	PANOCH/MS	0	0	0	0
99.24-L	10,493	10,493	0.92	0	PANOCH/MS	0	0	0	0
100.70-L	6,211	6,211	1	0	PANOCH/MS	0	0	0	0
102.04-R	4,087	4,087	1	0	WIDREN WD	0	0	0	1,404
LOWER DMC SUB TOTAL								2,005	6,590
WARREN ACT CONTRACT CREDIT TOTAL								5,483	62,553
TOTAL GROSS PUMP-IN								CREDIT	
TOTAL (BYRON BETHANY IRRIGATION DISTRICT)						0		0	213
TOTAL (BANTA CARBONA IRRIGATION DISTRICT)						0		0	0
TOTAL (DEL PUERTO WATER DISTRICT)						315		300	2,052
TOTAL (WEST STANISLAUS IRRIGATION DISTRICT)						0		0	9,178
TOTAL (PATTERSON IRRIGATION DISTRICT)						0		0	0
TOTAL (SAN LUIS WATER DISTRICT)						580		551	3,376
TOTAL (PANOCH/MS WATER DISTRICT)						75		71	1,534
TOTAL (MERCY SPRINGS WATER DISTRICT)						0		0	0
TOTAL (WIDREN WATER DISTRICT)						0		0	1,404
Other Warren Act Conveyance Credit Totals									
Del Puerto Water District:						0		0	5,054
Banta Carbona Irrigation District:						0		0	13,883
West Stanislaus Irrigation District:						0		0	3,440
Byron Bethany Irrigation District:						0		0	4,572
Patterson Irrigation District:						313		297	10,018
San Joaquin River Restoration Pump Back BCID:						2,021		2,021	5,586
San Joaquin River Restoration Pump Back PID:						605		605	605
Central California Irrigation District L.B. Creek Diversion Structure						0		0	0
Grassland Water District L.B. Creek Diversion Structure						1703		1,618	1618
San Luis Water District L.B. Creek Diversion Structure						21		20	20

Notes: 3.32-R, 20.42-L, 31.31-L and 42.53-L are River water



MENDOTA POOL OPERATIONS

2023

ALL FIGURES IN ACRE-FEET

Date: 2/8/2023

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
FRESNO SLOUGH	0												0
TPUD	0												0
JAMES I.D.	826												826
MEYERS	0												0
M.L. DUDLEY & INDART ¹	0												0
MID VALLEY* (Kings River)	0												0
REC. DIST. 1606	0												0
STATE FISH & WILDLIFE	199												199
TRACTION	170												170
UNMETERED	40												40
Total	409	0	0	0	0	0	0	0	0	0	0	0	409
COELHO FAMILY TRUST ²	0												0
TRANQUILITY I.D.	0												0
WESTLANDS LATERAL-6	0												0
WESTLANDS LATERAL-7	610												610
CARVALHO TRUST	0												0
TOTAL	1,845	0	0	0	0	0	0	0	0	0	0	0	1,845

NUMBERS SHOWN IN **BOLD** WERE REVISED AFTER DISTRIBUTION OF REPORT

1 aka COELHO-GARDNER-HANSEN 2 aka TERRA LINDA FARMS

Article 215 Water

Kings River Water

Duck Clubs (Percent Full)

BECK	120	PATOS	COLE	TRANQUILITY	1 ACRE
0%	0%	100%	0%	0%	0%

Jan, 2023
DMC Inflow 3,372 AF
James Bypass Flows 0 AF

May, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Sept, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Feb, 2023
DMC Inflow AF
James Bypass Flows 0 AF

June, 2023
DMC Inflow A.F
James Bypass Flows 0 AF

Oct, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Mar, 2023
DMC Inflow AF
James Bypass Flows 0 AF

July, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Nov, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Apr, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Aug, 2023
DMC Inflow AF
James Bypass Flows 0 AF

Dec, 2023
DMC Inflow AF
James Bypass Flows 0 AF

[illegible]

2 aka COELHO-GARDNER-HANSEN

James ID (per JID)

[illegible]



SAN LUIS UNIT DELIVERIES

(ALL FIGURES IN ACRE-FEET)

January 2023

Source document: Tracy Report (DWR)

Date: 2/8/23

O'NEILL FOREBAY AND POOL 13, SAN LUIS CANAL

O'NEILL FOREBAY WILDLIFE AREA		0
SAN LUIS WATER DISTRICT	AG	1
	M&I	28
V.A. CEMETERY		1
SUBTOTAL		30

SAN LUIS CANAL, POOLS 14 THRU 21

SAN LUIS WATER DISTRICT	AG	11
	M&I	0
PANOCHE WATER DISTRICT	AG	91
	M&I	4
PACHECO WATER DISTRICT	AG	0
	M&I	0
PACHECO C.C.I.D. NON PROJECT		0
SUBTOTAL		106

TOTAL SAN LUIS UNIT		136
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PANOCHE M&I INCLUDES 0 A.F. @ 89.70-L DOS PALOS
SAN LUIS WATER DISTRICT WELL WATER CREDIT- M.P. 79.67-R = 0

MONTHLY DELIVERIES FOR SAN FELIPE UNIT		
VALLEY WATER		0
SAN BENITO CO. W.D.		0
CASA DE FRUTA		0
TOTAL		0



Monthly Availability Report

CW "Bill" Jones Pumping Plant

January - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	744	25.3	3.40%	22.0	2.96%	93.64%	5	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	1	
Unit-3	744	744.0	100.00%	0.0	0.00%	0.00%	0	
Unit-4	744	5.6	0.75%	0.0	0.00%	99.25%	2	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	0	
Unit-6	744	5.6	0.75%	0.0	0.00%	99.25%	1	
Total	4464	780.5	17%	22.0	0.49%	82.51%	9	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



Monthly Availability Report

O'Neill Pump/Generating Plant

January - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts		Comments
							Pump	Gen	
Unit-1	744	0.0	0.00%	137.3	18.45%	81.55%	2	0	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-3	744	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-4	744	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	0	0	
Unit-6	744	0.0	0.00%	0.0	0.00%	100.00%	3	0	
Total	4464	0.0	0%	137.3	3.08%	96.92%	5	0	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice



Monthly Availability Report

DCI Pumping Plant

January - 2023

Unit #	Max Hours	Scheduled Outages (1)	%	Unscheduled Outages (2)	%	Over-all Availability %	Starts	Comments
							Pump	
Unit-1	744	0.0	0.00%	0.0	0.00%	100.00%	4	
Unit-2	744	0.0	0.00%	0.0	0.00%	100.00%	4	
Unit-5	744	0.0	0.00%	0.0	0.00%	100.00%	4	
Unit-6	744	0.0	0.00%	0.0	0.00%	100.00%	4	
Total	2976	0.0	0%	0.0	0.00%	100.00%	16	

Notes:

(1) Planned maintenance

(2) Emergency outages and maintenance performed with less than 24 hours advance notice