



**Notice of Regular Meeting**  
**NACIMIENTO PROJECT COMMISSION**

SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT  
THURS., NOVEMBER 18, 2021 – 4:00 PM

Phone line: +1 (571) 317-3122

Access Code: 347-856-765

Webinar: <https://global.gotomeeting.com/join/347856765>

Public comments can be submitted to: [wthomson@co.slo.ca.us](mailto:wthomson@co.slo.ca.us)

For more information: <https://www.slocounty.ca.gov/Departments/Public-Works/Forms-Documents/Committees-Programs/Nacimiento-Project-Commission.aspx>

Chair: Grigger Jones; Vice-Chair: Andy Pease

**AGENDA**

- I. **CALL TO ORDER**
  - A. Roll Call, Quorum Count & Flag Salute
  - B. Consider Adopting Resolution Regarding Virtual Meetings (AB 361)
- II. **PUBLIC COMMENT** *\*Non-agenda items within Commission jurisdiction; subject to three-minute limit each.*
- III. **MEETING MINUTES** *(Recommend Approval)*
  - A. Naci Commission, August 26, 2021
- IV. **COMMISSION INFORMATIONAL ITEMS** *(No Action Required):*
  - A. Utilities Division Report
    - 1. NWP Operations Update
    - 2. NWP Delivery Capacity
    - 3. 2022 NWP Calendar
  - B. First Quarter Operations Budget Report – FY 2021-22
- V. **PRESENTATIONS** *(No Action Required): NONE*
- VI. **COMMISSION ACTION ITEMS** *(No Subsequent Action by BOS Required):*
  - A. Consider Approving the Tesla Battery Energy Storage Project
- VII. **COMMISSION ACTION ITEMS** *(Action Subsequently Required by BOS): NONE*
- VIII. **FUTURE AGENDA ITEMS DESIRED BY COMMISSION**  
Next Commission Meeting: Feb. 24, 2022

**ATTACHMENTS**

- 1. Item I.B – Draft Resolution
- 2. Item III.A – Commission Minutes, Aug. 26, 2021
- 3. Item IV.A.1 – Staff Report
- 4. Item IV.A.2 – Staff Report
- 5. Item IV.A.3 – 2022 NWP Calendar
- 6. Item IV.B – Staff Report
- 7. Item VI.A – Staff Report

**CONTACT:** *All Americans with Disabilities Act (ADA) accommodations shall be promptly reviewed and resolved.*

Persons who require accommodations for any audio, visual or other disability in order to review an agenda, or to participate in the meeting per the ADA, are encouraged to request such accommodation 48 hours in advance of the meeting from Wes Thomson at (805) 781-5252.

**TO: Nacimiento Project Commission (NPC)**

**FROM: Wes Thomson, Utilities Division Engineer**

**DATE: November 18, 2021**

**SUBJECT: Item I.B: Consider Adopting Resolution to Continue Meeting Virtually**

### **Summary**

On March 4, 2020, California State Governor Gavin Newsom issued a Proclamation of State of Emergency in response to the COVID-19 pandemic. That proclamation remains in effect to date. On March 17, 2020, Governor Newsom issued Executive Order N-29-20 that suspended the teleconferencing rules set forth in the California Open Meeting Law, the Brown Act (Government Code Section 54950 et seq.). On June 11, 2021, Governor Newsom issued Executive Order N-08-21, clarifying the suspension of the teleconferencing rules set forth in the Brown Act, noting that those provisions would remain suspended through September 30, 2021.

On September 16, 2021, Governor Newsom signed Assembly Bill 361 (AB 361), which allows legislative bodies subject to the Brown Act to continue meeting by teleconference, provided they make certain findings, including that meeting in person would present imminent risks to the health or safety of attendees. AB 361 requires that certain findings be made by the legislative body every 30 days.

This staff report is presented today for the NPC to consider the finding that holding in person meetings would present imminent risks to the health or safety of board members, staff and all attendees of NPC public meetings.

### **Recommendation**

Staff recommends that the Committee adopt the attached resolution, invoking the provisions of AB 361 related to the holding of teleconferencing/virtual public meetings.

### **Attachment**

- Resolution acknowledging the Governor's State of Emergency and Authorizing Teleconference Meetings for 30 Days per AB 361

**In The NACIMIENTO PROJECT COMMISSION**  
COUNTY OF SAN LUIS OBISPO, STATE OF CALIFORNIA

Thursday, November 18, 2021

**PRESENT:** Members \_\_\_\_\_

**ABSENT:** Members \_\_\_\_\_

RESOLUTION NO. **2021-001**

**A RESOLUTION OF THE NACIMIENTO PROJECT COMMISSION ACKNOWLEDGING GOVERNOR NEWSOM'S PROCLAMATION OF A STATE OF EMERGENCY AND AUTHORIZING MEETINGS BY TELECONFERENCE FOR A PERIOD OF THIRTY DAYS PURSUANT TO THE RALPH M. BROWN ACT**

The following Resolution is now offered and read:

**WHEREAS**, on March 4, 2020, Governor Newsom issued a Proclamation of State of Emergency in response to the COVID-19 pandemic; and

**WHEREAS**, the proclaimed state of emergency remains in effect; and

**WHEREAS**, on March 17, 2020, Governor Newsom issued Executive Order N-29-20 that suspended the teleconferencing rules set forth in the California Open Meeting law, Government Code Section 54950 *et seq.* (the "Brown Act"), provided certain requirements were met and followed; and

**WHEREAS**, on June 11, 2021, Governor Newsom issued Executive Order N-08-21 that clarified the suspension of the teleconferencing rules set forth in the Brown Act, and further provided that those provisions would remain suspended through September 30, 2021; and

**WHEREAS**, on September 16, 2021, Governor Newsom signed Assembly Bill 361 (AB 361), allowing legislative bodies subject to the Brown Act to continue meeting by teleconference if the legislative body determines that meeting in person would present imminent risks to the health or safety of attendees, and further requires that certain findings be made by the legislative body every thirty (30) days; and

**WHEREAS**, California Department of Public Health and the federal Centers for Disease

Control and Prevention (“CDC”) caution that the Delta variant of COVID-19, currently the dominant strain of COVID-19 in the country, is more transmissible than prior variants of the virus, may cause more severe illness, and that even fully vaccinated individuals can spread the virus to others resulting in rapid and alarming rates of COVID-19 cases and hospitalizations (<https://www.cdc.gov/coronavirus/2019-ncov/variants/delta-variant.html>); and

**WHEREAS**, the CDC has established a “Community Transmission” metric with 4 tiers designed to reflect a community’s COVID-19 case rate and percent positivity; and

**WHEREAS**, the County of San Luis Obispo currently has a “Moderate” Community Transmission metric;

**WHEREAS**, in the interest of public health and safety, as affected by the emergency caused by the spread of COVID-19, the Nacimiento Project Commission (the “Commission”) deems it necessary to find holding in person meetings would present imminent risks to the health or safety of attendees, and thus intends to invoke the provisions of AB 361 related to teleconferencing.

**NOW, THEREFORE, BE IT RESOLVED AND ORDERED** by the Commission that:

1. The recitals set forth above are true and correct.
2. The Proclamation of State of Emergency in response to the COVID-19 pandemic issued by Governor Newsom on March 4, 2020, remains in effect.
3. Based on the recitals above, the Commission finds that meeting in person would present imminent risks to the health or safety of attendees.
4. Staff is directed to return at the next regularly scheduled meeting with an item for the Commission to consider making the findings required by AB 361 to continue meeting under its provisions.

Upon motion of Member \_\_\_\_\_, seconded by Member \_\_\_\_\_, and on the following roll call vote, to wit:

AYES:           Members \_\_\_\_\_  
NOES:           Members \_\_\_\_\_

ABSENT: Members \_\_\_\_\_  
ABSTAINING: Members \_\_\_\_\_

the foregoing resolution is hereby adopted.

\_\_\_\_\_  
Grigger Jones  
Chairperson of the Nacimiento Project Commission

ATTEST:

\_\_\_\_\_  
Wes Thomson  
Secretary of the Nacimiento Project Commission

APPROVED AS TO FORM AND LEGAL EFFECT:

RITA L. NEAL  
County Counsel

By: \_\_\_\_\_  
Deputy County Counsel

Dated: \_\_\_\_\_



**NACIMIENTO PROJECT COMMISSION  
MEETING MINUTES**

August 26, 2021

QUORUM: **YES**

(5/5 Seats & Voting Share > 51%)

COMMISSIONERS PRESENT (Voting Share %)

Atascadero MWC (17%): Grigger Jones (Chair)

City of SLO (28%): Andy Pease (Vice Chair)

District (20%): John Peschong

Paso Robles (33%): John Hamon

Templeton CSD (2%): Wayne Petersen

CLERK (District): Mark Chiaramonte

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**1. CALL TO ORDER**

The special quarterly meeting of the Nacimiento Project Commission was held on Thursday, Aug 26, 2021, at 4:00 P.M., with Grigger Jones in the Chair, and Mark Chiaramonte present as the Clerk. Present: Hamon, Petersen, Jones, Pease, and Peschong. Quorum established.

**2. PUBLIC COMMENT:** *None.*

**3. REVIEW OF PREVIOUS MEETING MINUTES**

Minutes from May 2021 meeting were presented and approved without changes.

*Motion for approval: J. Hamon; Seconded: W. Petersen; All approved.*

**4. COMMISSION INFORMATIONAL ITEMS** (No Action Required):

Utilities Division Manager's Report

Staff report provided as informational update-only, no additional comments by Mark Chiaramonte.

Fourth Quarter Operations Budget Report – FY 2020-21

Katie Franco presented the fourth quarter update.

County Board Drought Emergency Declaration on July 13, 2021

Informational update to notify Commission on the Board's action in July.

**5. PRESENTATIONS** (NO ACTION REQUIRED):

Water Right Applications - Presentation by Shandon-San Juan Water District

Presentation:

Steve Sinton and Matt Turrentine of SSJWD presented a brief overview of SSJWD their request to the State for an appropriation of Nacimiento River water that assumed use of the NWP pipeline for conveyance to the Paso Basin.

Commission discussion:

Andy Pease asked John Peschong when the Commission could expect an update on the concerns expressed by the Board of Supervisors. He reiterated the actions taken to convey to the State that the SLO County Board (along with Monterey County's Board) opposes the SSJWD water rights

applications (for Nacimiento River & Salinas River water), and that SLO County is not expecting an update any time soon, and that it would likely be a lengthy process, potentially years, before the matter is resolved.

John Hamon asked SSJWD if they had a plan for developing the infrastructure needed to get the water into the basin where it would help. Matt Turrentine responded that they have a couple of spots identified where they could convey the water to recharge the aquifer, mentioning the Huer Huero area.

**6. COMMISSION ACTION ITEMS** (NO SUBSEQUENT ACTION BY BOS REQUIRED): *None.*

**7. COMMISSION ACTION ITEMS** (ACTION SUBSEQUENTLY REQUIRED BY BOS): *None.*

**8. FUTURE AGENDA ITEMS DESIRED BY COMMISSION:**

John Hamon requested an informational report from the Utilities Division in November to review the NWP pipeline capacity for water delivery.

Next commission meeting: Nov. 18, 2021

The meeting was adjourned by Jones at approximately 4:28 P.M.

Wes Thomson, Secretary



## ATT. 3, NWP COMMISSION

SAN LUIS OBISPO COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
NACIMIENTO WATER PROJECT

**TO: Nacimiento Project Commission**  
**FROM: Nola Engelskirger, Utilities Division Manager**  
**DATE: November 18, 2021**  
**SUBJECT: NWP Operations Update**

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### SUMMARY

- NWP is operational with no current active non-routine or capital outlay (CIP) project updates to report on.
  - o Staff have been focused on general routine O&M and investigating a mechanical controls issue with the 680' valve on the NWP intake structure.
- As reported to the Commission in July, the latest MCWRA reservoir release schedule continues to show that the reservoir storage could be approaching the minimum pool level (12,000 AF) around January-February 2022 if there are no significant precipitation events between now and then.

### ATTACHMENTS

1. NWP Delivery Report, Sept 2021.
2. ResOps Committee Notes and Agenda Packet, Oct 2021.

## NWP Delivery Report – September 2021 DRAFT<sup>8</sup>

### Deliveries<sup>1,2</sup>

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	TOTAL
<b>Paso (T2)</b>	171.84	72.21	0.00	0.00	0.00	0.00	108.24	289.89	420.49	402.52	412.68	381.65	2259.52
Ops Water							6.78						
<b>TCSD (T4)</b>	0.00	0.00	0.00	0.00	0.00	0.00	9.72	17.82	15.04	17.12	18.74	18.17	96.61
Ops Water													
<b>AMWC (T6)</b>	376.62	13.45	0.00	0.00	0.00	0.00	0.00	138.62	432.52	444.59	462.04	425.67	2293.51
Ops Water													
<b>SMR (T9)</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.49	5.72	0.00	0.00	15.21
Ops Water													
<b>SLO (T11)</b>	361.19	141.07	0.00	0.00	0.00	0.00	171.53	384.54	400.92	424.14	420.05	387.60	2691.04
Ops Water													
<b>TOTAL</b>	<b>910</b>	<b>227</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>289</b>	<b>831</b>	<b>1278</b>	<b>1294</b>	<b>1314</b>	<b>1213</b>	<b>7355.89</b>
Cumulative	910	1136	1136	1136	1136	1136	1426	2257	3535	4829	6143	7356	
<b>Intake Flow Meter</b>	911.70	222.35	0.00	0.00	0.00	2.26	328.17	814.74	1264.89	1299.28	1282.66	1205.24	7331
Variance (UW)	(2.05)	4.38	0.00	0.00	0.00	(2.26)	(38.68)	16.13	13.57	(5.19)	30.85	7.85	25
Ops Water <sup>4</sup>							6.78						7

### Requests<sup>1,3</sup>

	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	TOTAL
<b>Paso (T2)</b>	302	160	120	123	111	301	292	658	636	658	636	636	4633
<b>TCSD (T4)</b>	0.00	0.00	0.00	0.00	0.00	0.00	11.50	11.88	11.50	11.88	11.88	11.50	70
<b>AMWC (T6)</b>	0	0	0	0	0	0	0	0	450	450	450	400	1750
<b>SMR (T9)</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	7.3	7.3	7.3	29
<b>SLO (T11)</b>	504	488	228	260	455	504	488	504	488	504	504	488	5415
<b>TOTAL</b>	<b>806</b>	<b>648</b>	<b>348</b>	<b>383</b>	<b>566</b>	<b>805</b>	<b>792</b>	<b>1174</b>	<b>1593</b>	<b>1631</b>	<b>1609</b>	<b>1543</b>	<b>11897</b>
Cumulative	806	1454	1802	2185	2751	3556	4348	5521	7114	8745	10354	11897	

### NOTES

- All table values listed are in units of acre-feet (AF).
- Deliveries are based on monthly reporting provided by County Operations.
- Requests based on latest schedule request submitted for project "Water Year 2021" deliveries. WY = Oct thru Sep.
- "Ops Water" is water sent through the turnout for O&M needs and not counted against Participants' Delivery Entitlement.
- NWP offline mid-Nov. 2020 for HDPE slip line at N. Salinas Crossing; deliveries resumed mid-April 2021.
- March 2021 required some pumping at Intake PS in order to fill Camp Roberts Tank during the slip line repair effort.
- Credit to Paso on their April total for flushing during startup.
- DRAFT report reflects deliveries to T9 at SMR recorded to date.

### NACIMIENTO WATER PROJECT

SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

G:\NWP\O&M Phase\DELIVERY & REQUESTS\Actuals\2021\211008-NWP 2021 Delivery Report\_Sept-DRAFT

10/8/2021

## Reservoir Operations Advisory Committee – Oct. 28, 2021

### MONTEREY COUNTY WATER RESOURCES AGENCY

SLO COUNTY STAFF NOTES

WT, 10/28/21

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**Call to Order & Roll Call** / Quorum Count at 1:30 PM

Quorum – yes.

J. Baillie chair. Shaunna Murray staff lead.

### **Public Comment –**

Steve Laughton – re: fishing at San Antonio, striped bass v. planted trout concerns.

### **CONSENT CALENDAR**

1. Approve the Minutes of the Reservoir Operations Advisory Committee Meeting held on Sept. 24, 2021. Approved.
2. Update on committee vacancies – overview from Shaunna Murray.
  - Review of committee purpose and current membership; discussion on how to address membership renewals in December for the next calendar year (2022).
3. Reservoir Release Update – Peter Kwiek.

Current Reservoir Conditions – as of 10/28/21:

#### *Nacimiento –*

- WSE of 703.7 ft.
- Storage at 40,480 AF (11% of capacity).
- Current releases at 60 cfs. No change.

#### *San Antonio –*

- WSE of 664.6 ft.
- Storage at 22,050 AF (7% of capacity).
- Current releases at 10 cfs to support fisheries.
- Salinas River Flow: Only reporting gauge is near Bradley at 82 cfs.
- The recent storm resulted in minimal inflow.
  - o Storm totals ranged from 1 inch to up to 12 inches in remote parts of Santa Lucia, but nothing significant in the Nacimiento and San Antonio watersheds.
    - Naci – received about 1". WSE increased less than 1 ft, approximately 1000 AF of inflow. Inflow to San Antonio was barely measurable at 100 AF.
  - o No measurable flows in the Salinas were generated as a result of the storm.

4. Updated release schedule – Peter Kwiek.  
Brief review but noted that there was nothing new.  
December 2021 elevation (projected) – are relevant for later discussion on D-TAC.
5. D-TAC Activation – Shaunna Murray.

You are viewing Shaunna Murray's screen   REC   View Options

## Drought Operations Technical Advisory Committee (D-TAC)

- Formed through settlement agreement to develop Standards and Guiding Principles and a proposed reservoir release schedule for MCWRA drought operations.
  - Standards, Guiding Principles and Implementation Procedures approved by ROAC in January 2021 and BOD in February 2021
- Ad-hoc committee of third-party experts with expertise in any of the following fields: hydrology, hydrogeology, hydrologic modeling, civil engineering or fisheries biology.
  - The experts are retained and paid for, but not employed by any interested person or organization.
  - U.S. FWS, NMFS, CDFW, and MCWRA are utilizing in-house staff
- Purpose is to provide, when drought triggers occurs, technical input and advice regarding the operations of Nacimiento and San Antonio Reservoirs

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October 28, 2021  
Page 4



Reservoir Operations Advisory Committee  
Monterey County Water Resources Agency

- In October, at this meeting, we are looking ahead at combined storage – 220 TAF (San Antonio on 12/1 at 82 TAF) triggers D-TAC.
- Between 12/1 and 3/31 – if reservoir storage exceeds the storage threshold – then the D-TAC is de-activated.
- Projections are to be well below the 220 TAF storage threshold. So this is the official activation. Meetings to commence.
- Pretty likely that we will stay with the drought ops procedures, given the current conditions (and per State-wide conditions shown in reporting from US Drought Monitor).
- Membership review –
  - o Current Members
  - o Additional members (e.g., SLO County), or resignations?

- Application process – Shaunna to forward application to Wes T. and coordinate for SLO County to consider participation; SLO would need individual who is not on ResOps since D-TAC is advisory to ResOps.
- Feb 15 = start of meetings, and to continue through March 31, unless triggers are no longer met.

## D-TAC Activation

- December forecast for Naci and SA reservoirs:

	Storage	Capacity	Elevation
Nacimiento	33,261	9%	698.2
San Antonio	21,024	6%	663.2
Total	54,285		

- Combined storage below 220,000 acre-feet?
  - YES
- San Antonio storage below 82,000 acre-feet?
  - YES
- D-TAC to meet between February 15th through March 31<sup>st</sup> unless triggers are no longer met



- Update on Drought Conditions
  - Monterey County issued proclamation of local emergency based on drought conditions, Elizabeth K. to get a copy for ResOps review.
- Winter Release Update – Shaunna M.
  - Defined via the Salinas Valley Water Coalition (SVWC) settlement with MCWRA.
  - Further discussion for implementation is needed, and consideration of various factors:
    - Lagoon breaching, species impacts, impact to other water uses from shift in timing of releases, fish passage needs, water rights operations.
  - Both agencies engaged technical experts to work through several issues.
  - Process, per settlement, is to move ahead and develop Winter Release schedule.
  - EIR and additional analysis needed. 2 years to process (estimated) and then policy update with potential need for MCWRA board review/approval.
  - Review of next steps – continue to meet with technical experts, determine additional studies needed, consider how HCP fits within process, and bring regular updates to ResOps.
- Update on Boat Docks. Jess Barreras.
  - Reported unpaid fees – 60 outstanding.

9. Update on O&M Activities at the Reservoirs – Shaunna M.
- General O&M, valves; inspections in response to a few recent earthquakes, nothing found.
  - Magnitude and proximity, 15 miles from the dams, under DSOD threshold, but inspected out of precaution.
  - 5.0 within 50 miles, would have triggered DSOD inspection immediately.
  - Spillway work has been wrapped up
  - Valves – Low level outlet valves, etc is current focus.

10. Update on DSOD Requirements – No update.

11. Update on Interlake Tunnel Project – Brent B.

- Staff are still working with modelers, and Wood Environmental for analysis (EIR) component.

## 12. STATUS REPORTS

Concessionaire – Nathan Merkle

- Not much going on traffic-wise at the reservoirs, so working on offseason projects, and grant applications for improvements planned.
- Lease with MCWRA – working on agreement, maps, delineate parks boundary, set for taking agreement to board.
- Mar/Apr – general time frame for when we will start to see people return.

Quagga/Zebra Mussel – No update

Cloud Seeding – No update

SLO County Activities

- Continuing to address the valve issue on the Intake structure at the Naci Intake Pump Station; faced with extended lead times for replacement parts, but we are preparing to take advantage of the opportunity to make repairs if the levels in the reservoir continue to stay low.
- Question & comment from NRWAC rep, Don Bullard – re: Does SLO County charge a fee to waterfront property owners to draw water from Nacimiento? What about riparian rights to lakeside use? DB implores SLO County to investigate this.

NMFS – No update, Bill Stevens not present.

## CALENDAR

13. Next mtg date.

- Merge Nov/Dec together?
- Brent B noted AB 361 issue – said understanding was that we're only covered for 30 days at a time. Discussion.
- Tentatively – plan for the following –
  - o Nov 22 – 1:30p; Dec 21 – 1:30p
- Agenda items for Nov? No additional items requested.

2:28p – Meeting adjourned.

# Monterey County

1441 Schilling Place  
Salinas, CA 93901



## Meeting Agenda

Thursday, October 28, 2021

1:30 PM

**IMPORTANT COVID-19 NOTICE ON PAGE 2-4**  
**AVISO IMPORTANTE SOBRE COVID-19 EN LA PAGINA 2-4**

### **Water Resources Agency Reservoir Operations**

#### **Advisory Committee**

*John Baillie, Chair*

*Ken Ekelund*

*Mark Gonzalez*

*Matthew Simis*

*Benny Jefferson*

*Eric Morgan*

*Wes Thomson*

*Kevin Pearcy*

*Jon Anthony*

*Bill Lipe*

*Don Bullard*

*Patrick Collins*

*Layla Decker*

*Vacancy (4)*

**IMPORTANT NOTICE REGARDING COVID 19 AND PARTICIPATION IN THE RESERVOIR OPERATIONS ADVISORY COMMITTEE MEETING**

**In order to minimize the spread of the COVID 19 virus, please do the following:**

**To participate in this Reservoir Operations Advisory Committee meeting, the public is invited to observe and address the Committee telephonically or electronically. Instructions for public participation are below:**

**1. For ZOOM participation please join by computer audio at:**

**<https://montereycty.zoom.us/j/92085702216>**

**OR to participate by phone call any of these numbers below:**

**+1 669 900 6833 US (San Jose)**

**+1 346 248 7799 US (Houston)**

**+1 312 626 6799 US (Chicago)**

**+1 929 205 6099 US (New York)**

**+1 253 215 8782 US**

**+1 301 715 8592 US**

**Enter this Meeting ID number: 920 8570 2216 PASSWORD 877574 when prompted. Please note there is no Participant Code, you will just hit # again after the recording prompts you.**

**You will be placed in the meeting as an attendee; when you are ready to make a public comment, if joined by computer audio, please Raise your Hand; and by phone, please push \*9 on your keypad.**

**2. If you wish to comment on a specific agenda item while the matter is being heard, you may participate by the following means:**

**When the Chair calls for public comment on an agenda item, the Zoom Meeting Host, or his or her designee, will first ascertain who wants to comment (among those who are in the meeting electronically or telephonically) and will then call on speakers and unmute their device one at a time. Public speakers may be broadcast in audio form only.**

**3. If you wish to comment on a particular agenda item, please submit your comments in writing via email to Monterey County Water Resources Agency at [WRApubliccomment@co.monterey.ca.us](mailto:WRApubliccomment@co.monterey.ca.us) by 5:00 p.m. on the Wednesday prior to the Committee meeting. To assist Agency staff in identifying the agenda item to which the comment relates please indicate the Reservoir Operations Advisory Committee meeting date and agenda number in the subject line. Comments received by the 5:00 p.m. Wednesday deadline will be distributed to the Committee and will be placed in the record.**

**4. If you wish to make either a general public comment for items not on the day's agenda or to**

comment on a specific agenda item as it is being heard, please submit your comment, limited to 250 words or less, to the Monterey County Water Resources Agency at [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). In an effort to assist Agency staff in identifying the agenda item relating to your public comment please indicate in the subject line, the meeting body (i.e. Reservoir Operations Advisory Committee) and item number (i.e. Item No. 10). Every effort will be made to read your comment into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

5. If speakers or other members of the public have documents they wish to distribute to the Committee for an agenda item, they are encouraged to submit such documents by 5:00 p.m. on Wednesday before the meeting to: [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). To assist Agency staff in identifying the agenda item to which the comment relates, the public is requested to indicate the Reservoir Operations Advisory Committee date and agenda number in the subject line.

6. If members of the public want to present documents/Power Point presentations while speaking, they should submit the document electronically by 5:00 p.m. on Wednesday before the meeting at [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). (If submitted after that deadline, staff will make best efforts, but cannot guarantee, to make it available to present during the Committee meeting.)

7. Individuals with disabilities who desire to request a reasonable accommodation or modification to observe or participate in the meeting may make such request by sending an email to [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). The request should be made no later than noon on the Wednesday prior to the Committee meeting in order to provide time for the Agency to address the request.

8. The Chair and/or Secretary may set reasonable rules as needed to conduct the meeting in an orderly manner.

#### **AVISO IMPORTANTE SOBRE COVID 19 Y PARTICIPACIÓN EN LA REUNIÓN DEL COMITE ASESOR DE LA OPERACION DE EMBALSES**

Para minimizar la propagación del virus COVID 19, haga lo siguiente:

Para participar en esta reunión del Comité Asesor de la Operación de Embalses, el público están invitados a observar y dirigirse al Comité telefónicamente o por vía electrónica. Las instrucciones para la participación pública están a continuación:

1. El público puede observar la reunión ZOOM a través de computadora haciendo clic en el siguiente enlace: <https://montereycty.zoom.us/j/92085702216>

O el público puede escuchar a través del teléfono llamando al:  
+1 669 900 6833 US (San Jose)

+1 346 248 7799 US (Houston)  
+1 312 626 6799 US (Chicago)  
+1 929 205 6099 US (New York)  
+1 253 215 8782 US  
+1 301 715 8592 US

Cuando se le solicite el código de acceso para entrar a la reunión, presione los siguientes números: 920 8570 2216 PASSWORD 877574 Tenga en cuenta que no hay un Código de participante, simplemente presionará # nuevamente después de que la grabación lo solicite.

Se le colocará en la reunión como asistente; cuando esté listo para hacer un comentario público si se une al audio de la computadora, levante la mano; y por teléfono presione \* 9 en su teclado.

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Cuando el Presidente del Comité solicite comentarios públicos sobre un artículo de la agenda, el anfitrión de la reunión Zoom o su designado, primero determinará quién quiere testificar (entre los que están en la reunión por vía electrónica o telefónica) y luego llamará a los oradores (speakers) y activará la bocina para el orador, uno a la vez. Todo orador, será transmitido por audio en altavoz solamente.

3. Si un miembro del público desea comentar sobre un artículo de la agenda en particular, se le es sumamente recomendable que envíe sus comentarios por escrito por correo electrónico a la Agencia de Administración de Recursos del Agua (Agencia) a [WRAPublicComment@co.monterey.ca.us](mailto:WRAPublicComment@co.monterey.ca.us) antes de las 5:00 P. M. el Miércoles antes de la reunión del Comité. Para ayudar al personal de la Agencia a identificar el número del artículo de la agenda con el cual se relaciona el comentario, se solicita al público que indique la fecha de la reunión del Comité y el número del artículo de la agenda en la línea de asunto. Comentarios recibidos en la fecha límite del Miércoles a las 5 P.M, serán distribuidos al Comité y serán colocados en el registro.

4. Los miembros del público que deseen hacer un comentario público general para temas que no están en la agenda del día o que deseen comentar en un artículo específico mientras se escucha la presentación, lo pueden hacer enviando un comentario por correo electrónico, preferiblemente limitado a 250 palabras o menos, a [WRAPublicComment@co.monterey.ca.us](mailto:WRAPublicComment@co.monterey.ca.us). Para ayudar al personal de la Agencia a identificar el artículo de la agenda con el cual se relaciona el comentario, se solicita al público que indique el nombre del Comité (por ejemplo: Comité Asesor de la Operación de Embalses) y el número del artículo de la agenda (por ejemplo: Artículo # 10). Se hará todo lo posible para leer el comentario en el registro, pero algunos comentarios pueden no leerse en voz alta debido a limitaciones de tiempo. Los comentarios recibidos después del cierre del período de comentarios públicos sobre un artículo de la agenda serán parte del registro si se reciben antes que

termine la reunión del Comité.

5. Si los oradores u otros miembros del público tienen documentos que desean distribuir al Comité para un artículo de la agenda, se les recomienda enviar dichos documentos antes de las 5:00 P.M. el Miércoles antes de la reunión a: [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). Para ayudar al personal de la Agencia a identificar el número del artículo de la agenda con el cual se relaciona el comentario, se solicita al público que indique la fecha de la reunión del Comité y el número de agenda en la línea de asunto.

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8. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

### Call to Order

### Roll Call

### Public Comment

### Committee Member Comments

### Consent Calendar

1. Approve the Minutes of the Reservoir Operations Advisory Committee Meeting held on September 30, 2021.

Attachments: [Draft Minutes September 30, 2021](#)

### Staff Reports

2. Update on Committee Vacancies and Applications

3. Reservoir Release Update  
  
**Attachments:** [Reservoir Release Update](#)
4. Update on the release schedule for Nacimiento and San Antonio reservoirs for 2021  
  
**Attachments:** [Reservoir Release Schedule Update](#)
5. Update on Drought Technical Advisory Committee (DTAC) Activation
6. Update on Drought Conditions
7. Winter Release Update
8. Update on Boat Docks
9. Update on Operations and Maintenance Activities at the Reservoirs
10. Update on Division of Safety of Dams Requirements
11. Update on Interlake Tunnel Project

### **Status Reports**

12. Lake Recreation by Concessionaire and Parks Department  
Quagga/Zebra Mussel Plan  
Cloud Seeding  
San Luis Obispo County Activities  
National Marine Fisheries Service

### **Calendar**

13. Set next meeting date and discuss future agenda items.

### **Adjournment**

# Monterey County

1441 Schilling Place  
Salinas, CA 93901



## Meeting Minutes

Thursday, September 30, 2021

1:30 PM

**IMPORTANT COVID-19 NOTICE ON PAGE 2-4**  
**AVISO IMPORTANTE SOBRE COVID-19 EN LA PAGINA 2-4**

## Water Resources Agency Reservoir Operations Advisory Committee

*John Baillie, Chair*  
*Ken Ekelund*  
*Mark Gonzalez*  
*Matthew Simis*

<i>Benny Jefferson</i>	<i>Jon Anthony</i>
<i>Eric Morgan</i>	<i>Bill Lipe</i>
<i>Wes Thomson</i>	<i>Don Bullard</i>
<i>Kevin Piearcy</i>	<i>Patrick Collins</i>

*Layla Decker*  
*Vacancy (4)*

**IMPORTANT NOTICE REGARDING COVID 19 AND PARTICIPATION IN THE  
RESERVOIR OPERATIONS ADVISORY COMMITTEE MEETING**

Based on guidance from the California Department of Public Health and the California Governor's Office, in order to minimize the spread of the COVID 19 virus, please do the following:

To participate in this Reservoir Operations Advisory Committee meeting, the public is invited to observe and address the Committee telephonically or electronically. Instructions for public participation are below:

1. For ZOOM participation please join by computer audio at:  
<https://montereycty.zoom.us/j/92085702216>

OR to participate by phone call any of these numbers below:

- +1 669 900 6833 US (San Jose)
- +1 346 248 7799 US (Houston)
- +1 312 626 6799 US (Chicago)
- +1 929 205 6099 US (New York)
- +1 253 215 8782 US
- +1 301 715 8592 US

Enter this Meeting ID number: 920 8570 2216 PASSWORD 877574 when prompted. Please note there is no Participant Code, you will just hit # again after the recording prompts you.

You will be placed in the meeting as an attendee; when you are ready to make a public comment, if joined by computer audio, please Raise your Hand; and by phone, please push \*9 on your keypad.

2. If you wish to comment on a specific agenda item while the matter is being heard, you may participate by the following means:

When the Chair calls for public comment on an agenda item, the Zoom Meeting Host, or his or her designee, will first ascertain who wants to comment (among those who are in the meeting electronically or telephonically) and will then call on speakers and unmute their device one at a time. Public speakers may be broadcast in audio form only.

3. If you wish to comment on a particular agenda item, please submit your comments in writing via email to Monterey County Water Resources Agency at [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us) by 5:00 p.m. on the Wednesday prior to the Committee meeting. To assist Agency staff in identifying the agenda item to which the comment relates please indicate the Reservoir Operations Advisory Committee meeting date and agenda number in the subject line. Comments received by the 5:00 p.m. Wednesday

deadline will be distributed to the Committee and will be placed in the record.

4. If you wish to make either a general public comment for items not on the day's agenda or to comment on a specific agenda item as it is being heard, please submit your comment, limited to 250 words or less, to the Monterey County Water Resources Agency at [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). In an effort to assist Agency staff in identifying the agenda item relating to your public comment please indicate in the subject line, the meeting body (i.e. Reservoir Operations Advisory Committee) and item number (i.e. Item No. 10). Every effort will be made to read your comment into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

5. If speakers or other members of the public have documents they wish to distribute to the Committee for an agenda item, they are encouraged to submit such documents by 5:00 p.m. on Wednesday before the meeting to: [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). To assist Agency staff in identifying the agenda item to which the comment relates, the public is requested to indicate the Reservoir Operations Advisory Committee date and agenda number in the subject line.

6. If members of the public want to present documents/Power Point presentations while speaking, they should submit the document electronically by 5:00 p.m. on Wednesday before the meeting at [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). (If submitted after that deadline, staff will make best efforts, but cannot guarantee, to make it available to present during the Committee meeting.)

7. Individuals with disabilities who desire to request a reasonable accommodation or modification to observe or participate in the meeting may make such request by sending an email to [WRAPubliccomment@co.monterey.ca.us](mailto:WRAPubliccomment@co.monterey.ca.us). The request should be made no later than noon on the Wednesday prior to the Committee meeting in order to provide time for the Agency to address the request.

8. The Chair and/or Secretary may set reasonable rules as needed to conduct the meeting in an orderly manner.

#### **AVISO IMPORTANTE SOBRE COVID 19 Y PARTICIPACIÓN EN LA REUNIÓN DEL COMITE ASESOR DE LA OPERACION DE EMBALSES**

Basado en la guía del Departamento de Salud del Estado de California (California Department of Public Health) y de la Oficina del Gobernador, para minimizar la propagación del virus COVID 19, por favor haga lo siguiente:

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8. El Presidente y / o Secretario pueden establecer reglas razonables según sea necesario para llevar a cabo la reunión de manera ordenada.

### Call to Order

The meeting was called to order at 1:32 p.m.

### Roll Call

Present: John Baillie, Ken Ekelund, Mark Gonzalez, Matthew Simis, Jon Anthony, Bill Lipe, Wes Thomson, Patrick Collins

Absent: Benny Jefferson, Eric Morgan, Kevin Pearcey, Don Bullard, Layla Decker

Resigned from the Committee: John Huerta, Jr.

**Public Comment**

None

**Consent Calendar**

1. Approve the Minutes of the Reservoir Operations Advisory Committee Meeting held on August 26, 2021.

**Attachments:**     [Draft Minutes ResOps August 26, 2021](#)

Upon Motion by Matthew Simis and Second by Mark Gonzalez the Committee approved the Minutes of the Reservoir Operations Advisory Committee Meeting held on August 26, 2021.

**Ayes:** Baillie, Ekelund, Gonzalez, Simis, Anthony, Lipe, Thomson, Collins

**Noes:** None

**Absent:** Jefferson, Morgan, Pearcy, Bullard and Decker

**Staff Reports**

2. Reservoir Release Update

**Attachments:**     [Reservoir Release Update](#)

3. Update on the release schedule for Nacimiento and San Antonio reservoirs for 2021

**Attachments:**     [Reservoir Release Schedule Update](#)

4. Update on operations and maintenance activities at the reservoirs

5. Update on Division of Safety of Dams Requirements

**Public Comment:** George Fontes

6. Update on Interlake Tunnel Project

7. Update on the San Luis Obispo Fire Safe Council Grant

8. Update on Boat Docks

9. Update on the Salinas River Stream Maintenance Program

10. Update on Drought Conditions

Public Comment: George Fontes

**Status Reports**

11. Lake Recreation by Concessionaire and Parks Department  
Quagga/Zebra Mussel Plan by SLO County and MCWRA  
Cloud Seeding by SLO County  
San Luis Obispo County Activities  
National Marine Fisheries Service

**Calendar**

12. Set next meeting date and discuss future agenda items.

**Adjournment**

The meeting adjourned at 2:51 p.m.

## Reservoir Release Update

### SUMMARY/DISCUSSION:

The Board of Directors receives monthly updates on the status of Agency reservoirs.

**RESERVOIR ELEVATION / STORAGE:** As of October 20, 2021, San Antonio Reservoir has a water surface elevation of approximately 664.7 feet (NGVD 29), with 22,125 acre-feet of storage. Nacimiento Reservoir has a water surface elevation of approximately 703.5 feet, with 40,200 acre-feet of storage. San Antonio Reservoir is currently at 7% of storage capacity and Nacimiento Reservoir is at 11% of capacity.

**RESERVOIR RELEASES:** From April 5 until July 27, the Agency made conservation releases from both reservoirs to recharge the Salinas Valley Groundwater Basin and provide flow to the Salinas River Diversion Facility. Due to limited volume in the reservoirs, conservation releases were halted on July 28. The Agency has since made releases of approximately 60 cfs from Nacimiento Reservoir and 10 cfs from San Antonio Reservoir to support fish habitat below the dams.

The Salinas River Lagoon has been closed to the ocean since March 3, 2021.

Minor deviations in release rates are not presented in this report but are documented in the Salinas Valley Water Project Annual Flow Reports.

Releases as of October 20, 2021:

- Nacimiento Reservoir: 60 cfs
- San Antonio Reservoir: 10 cfs

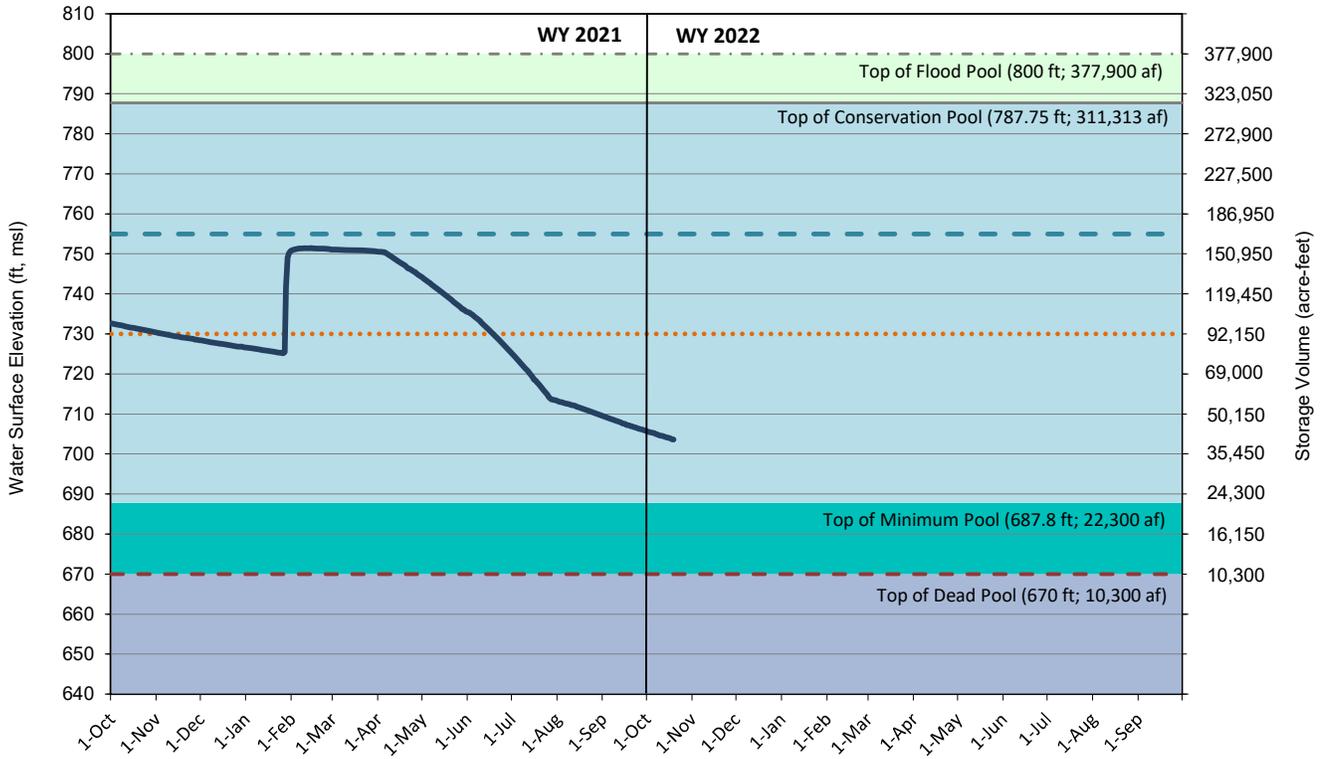
Total releases from both reservoirs to the Salinas River are approximately 70 cfs. The following “provisional” flows have been recorded by the USGS:

- Salinas River near Bradley: 65 cfs
- Salinas River at Soledad: 0 cfs
- Salinas River near Chualar: 0 cfs
- Salinas River near Spreckels: 0 cfs

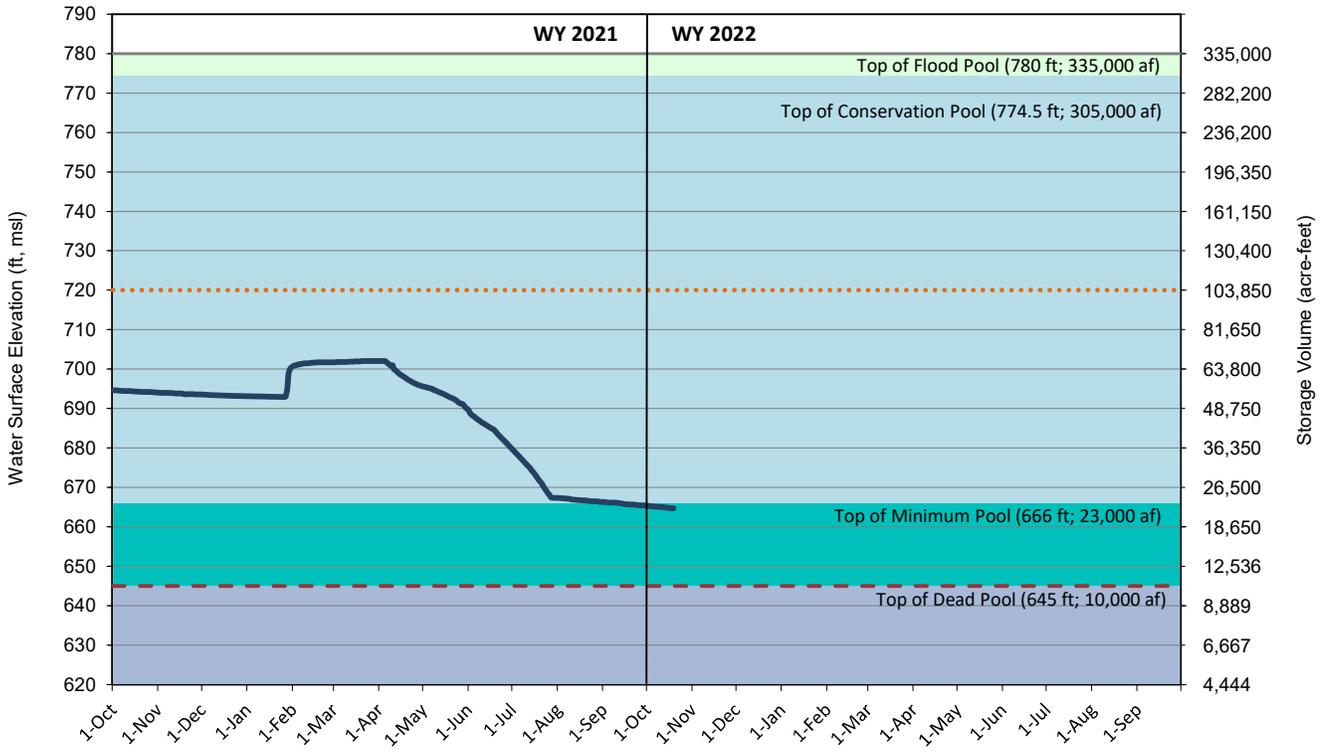
Prepared by: Peter Kwiek, Associate Hydrologist, (831) 755-4860

# Reservoir Elevation and Storage

## Nacimiento Reservoir



## San Antonio Reservoir



- Dead pool
- Minimum Pool
- Conservation Pool
- Flood Pool
- Minimum Recreation Elevation
- Low Level Outlet Works
- Nacimiento High Level Outlet Works
- Reservoir Elevation
- Spillway
- Raised Nacimiento Spillway Gate



## RESERVOIR RELEASE SCHEDULE FOR 2021

Month	Combined Releases (cfs) <sup>1</sup>	Combined Releases (ac-ft)	NACIMIENTO							SAN ANTONIO						
			Evap. Losses (ac-ft)	Reservoir Releases (cfs) <sup>1</sup>	Reservoir Releases (ac-ft)	NWP Orders (ac-ft)	NWP Diversions (ac-ft)	Beginning of Month Storage		Evap. Losses (ac-ft)	Reservoir Releases (cfs) <sup>1</sup>	Reservoir Releases (ac-ft)	Beginning of Month Storage			
								(ac-ft)	(%)	Elev. (ft)				(ac-ft)	(%)	Elev. (ft)
Jan	74	4,552	351	64	3,937	488	0	83,840	22%	726.6	196	10	615	53,268	16%	693.2
Feb	70	4,044	566	60	3,469	806	0	154,055	41%	750.9	262	10	575	65,120	19%	700.8
Mar	70	4,304	598	60	3,689	1,105	2	154,745	41%	751.1	355	10	615	66,688	20%	701.8
Apr	536	31,889	1,041	355	21,134	1,092	328	152,675	40%	750.5	501	181	10,755	67,182	20%	702.1
May	521	32,028	1,321	378	23,251	1,512	815	130,838	35%	743.8	714	143	8,777	56,750	17%	695.5
Jun	594	35,372	1,620	399	23,768	2,143	1,223	106,075	28%	735.3	808	195	11,603	47,148	14%	688.9
Jul	530	32,579	1,344	345	21,219	2,211	1,297	79,360	21%	724.7	920	185	11,360	35,470	11%	679.2
Aug	77	4,756	1,035	67	4,142	2,210	1,283	55,580	15%	713.1	498	10	615	24,190	7%	667.3
Sep	75	4,453	869	65	3,858	2,100	1,205	49,078	13%	709.4	416	10	595	23,390	7%	666.3
Oct	71	4,380	567	61	3,765	1,268		43,175	11%	705.6	295	10	615	22,630	7%	665.4
Nov	70	4,165	271	60	3,570	767		37,945	10%	701.9	153	10	595	21,769	6%	664.2
Dec	70	4,304	163	60	3,689	460		33,261	9%	698.2	94	10	615	21,024	6%	663.2
Jan 2021								29,533	8%	695.2				20,338	6%	662.3
<b>Totals</b>		<b>166,826</b>	<b>9,748</b>		<b>119,492</b>	<b>16,162</b>	<b>6,153</b>				<b>5,213</b>		<b>47,334</b>			

Revision Date: 10/20/21

Notes:

1. Mean daily flow for the month in cubic feet per second.
2. Shaded areas denote actual values. Non-shaded areas are projected values.
3. Nacimiento Reservoir storage capacity: 377,900 acre feet; San Antonio Reservoir storage capacity: 335,000 acre feet.
4. Reservoir Operations Advisory Committee may make release considerations for fish spawn and holiday periods to benefit recreation.
5. Schedule assumes no inflow to reservoirs after April 1st. Actual elevations may be influenced by inflow.
6. "NWP Diversions" are San Luis Obispo County - Nacimiento Water Project conveyance facilities diversions. Max. allowable water year (Oct. 1 - Sept. 30) diversions: 15,750 ac-ft.
7. Nacimiento "NWP Diversions" do not include lakeside water use which is estimated at approximately 1,750 acre feet per year.





**TO: Nacimiento Project Commission**  
**FROM: Wes Thomson, Utilities Division**  
**DATE: November 18, 2021**  
**SUBJECT: NWP Capacity Summary**

---

### **NWP WATER CONTRACTS AND DELIVERIES**

**Attachment 1** provides is a set of tables that summarize the current NWP Participant water delivery entitlement contracts and reports the total annual deliveries since the project started in February 2011.

- Note that the system has experienced several unplanned outages that have impacted the ability to maximize the scheduled deliveries. The three major outages include the intake pipeline failure at the Nacimiento reservoir (2012), the pipeline failure at the Nacimiento River crossing (2014), and then the pipeline failure at the north Salinas River crossing location (2019).

### **SYSTEM CAPACITY**

**Attachment 2** provides details on the system design capacity and its ability to deliver the full 15,750 acre-feet of water to the NWP Participants, as detailed in the "System Capacities & Hydraulics" excerpt from the Manual of Procedures. This is a primary reference document for County and Participant operations staff that was developed by the design consultant to support the ongoing NWP water delivery project operations.

### **ATTACHMENTS**

1. WDEC Values and Historic Deliveries Report, NWP Years 2011-2021.
2. NWP System Design Capacity Reference ("Chapter 211" – excerpt from the NWP Manual of Procedures, 2011).

## WATER DELIVERY ENTITLEMENT CONTRACT VALUES & HISTORIC PROJECT DELIVERIES FROM NWP YEARS 2011 - 2021

**Table 1. NWP Water Delivery  
Entitlement Contract (WDEC) Values**

<b>WDEC CONTRACT PARAMETERS</b>				
<b>PARTICIPANTS</b>	Annual NWP Delivery (AFY)	Monthly Max at Turnout (AFM)	Max Turnout Flowrate (CFS)	% share of 15,750 AF
City of Paso Robles	6,488	768	12.9	41.194%
Templeton CSD	406	76	1.27	2.578%
Atascadero MWC	3,244	608	10.22	20.597%
SMR MWC	80	7	0.12	0.508%
City of San Luis Obispo	5,482	498	8.2	34.806%
CSA 10A	40	3	0.06	0.254%
Bella Vista MHP	10	1	0.02	0.063%
<b>TOTAL WDEC =</b>	<b>15,750</b>	<b>1,961</b>	<b>32.79</b>	<b>100.00%</b>

**Table 2. NWP Annual Water Deliveries Relative to the  
Total Amount of Project Water Available**

<b>Delivery Water Year</b> (Oct 1 thru Sept 30)	<b>Water Available</b> (AFY)	<b>Water Scheduled</b> (AF)	<b>Water Delivered</b> (AF)	<b>Water Undelivered</b> (AF)
2010-11	15,750	5,630	1,740	14,010
2011-12	15,750	5,630	3,407	12,343
2012-13*	15,750	6,118	3,593	12,157
2013-14*	15,750	7,273	2,112	13,638
2014-15*	15,750	8,109	6,826	8,924
2015-16	15,750	9,994	7,056	8,694
2016-17	15,750	11,703	5,523	10,227
2017-18	15,750	11,740	7,281	8,469
2018-19*	15,750	11,934	5,137	10,613
2019-20*	15,750	11,939	4,488	11,262
2020-21*	15,750	11,897	7,356	8,394

**NOTES:**

1. Project deliveries began in February 2011.
2. The NWP "Water Year" runs from Oct. 1 to Sept. 30.
3. The District (i.e., SLOFCWCD) owns and operates the project on behalf of the Participants.
4. The District does not have storage rights at Nacimiento Reservoir, so the unused portion of annual project water supply cannot be carried over for use in the next water year.
5. In The Participants, the NWP went to full allocation, meaning the Participants contracted for the remaining water that was held in reserve at that time by the District.
6. \* = Delivery year impacted by planned or unplanned NWP system operation outage.



# CHAPTER 211: SYSTEM CAPACITIES & HYDRAULICS

(Revision: 1.000)

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### CHAPTER 211: SYSTEM CAPACITIES & HYDRAULICS

This section provides an overview of Nacimiento Water Project (NWP, Project) capacities and associated hydraulic profiles.

#### 211.1 SYSTEM CAPACITIES

The maximum capacity of the NWP is limited to the capacity of the Intake Pump Station (IPS). The installed capacity of the IPS is 32.79 cubic feet per second (cfs) (14,717 gallons per minute [gpm], 21.2 million gallons per day [mgd]) over a lake water elevation (El.) range of 673.07 to 803.07 feet (ft). This is the maximum instantaneous flowrate from Lake Nacimiento.

The San Luis Obispo Flood Control and Water Conservation District (District) has an annual entitlement of 17,500 acre-feet (AF) within Lake Nacimiento via a 1959 Agreement with Monterey County Water Resources Agency (MCWRA). The Initial Participants are the City of El Paso de Robles (Paso Robles), Templeton Community Services District (TCSD), Atascadero Mutual Water Company (AMWC), and the City of San Luis Obispo (SLO). County Service Area 10, Benefit Zone A (CSA10A) joined as a Participant later. CSA10A's entitlement will be delivered to SLO, who in turn will adjust CSA10A's share. All the Participants executed Water Delivery Entitlement Contracts (WDEC) with the District to receive a portion of the NWP water supply. The Project is designed to convey the District's full entitlement less the lakeside set aside, which results in available capacity of 15,750 acre-feet per year (AFY). This will facilitate the inclusion of additional participants, or allow for an increase in the entitlement of the current Participants, if desired, in the future.

The current delivery entitlements are listed in Table 211-1.

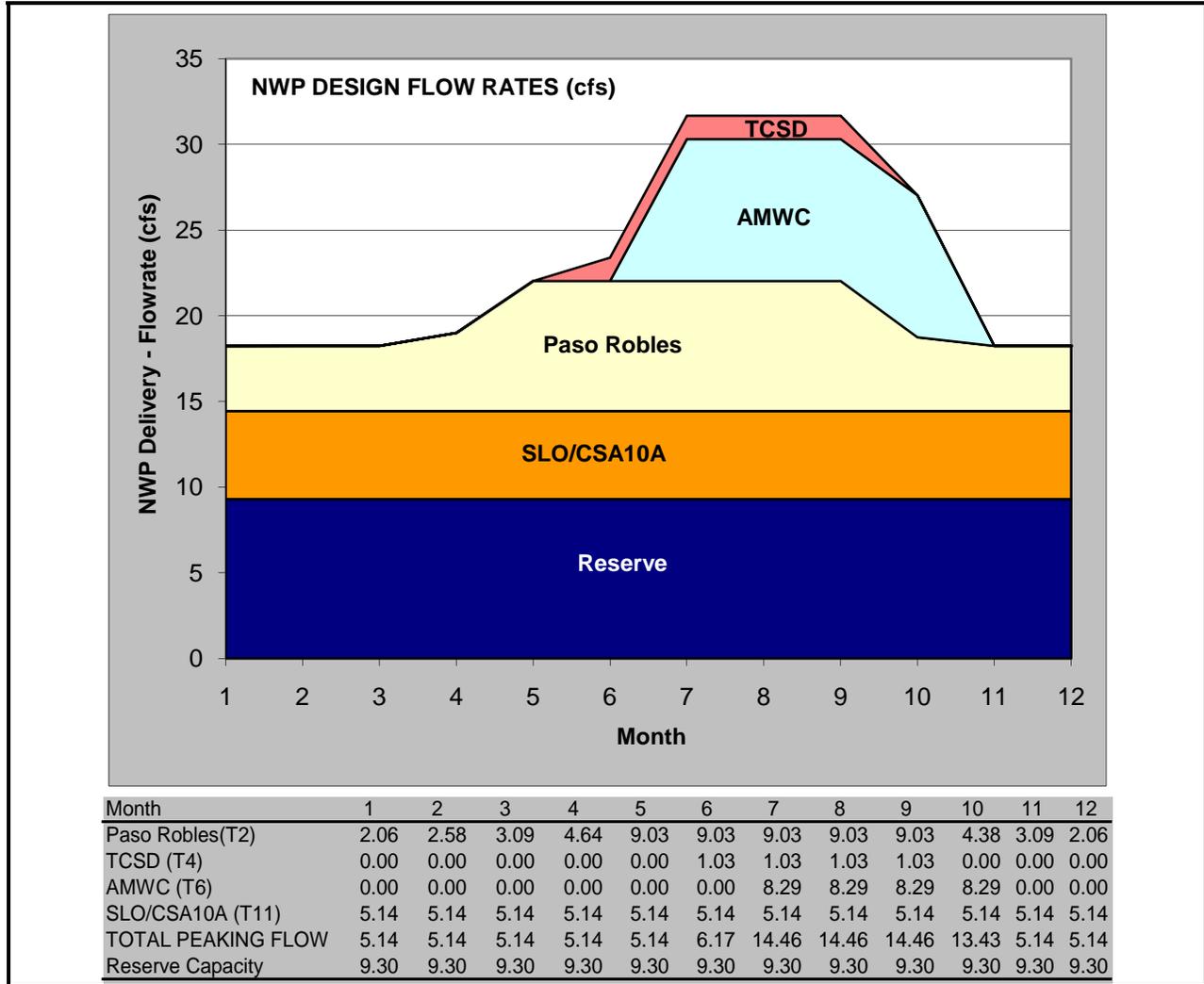
Table 211-1 Delivery Entitlements – Per Updated Contracts

Participant	Total Amount Each Water Year (AF)	Max. Instantaneous Rate of Flow (cfs)	Max. Amount In Any One Month (AF)
Paso Robles	4,000	9.03	537
TCSD	250	1.03	63
AMWC	2,000	8.29	500
SLO	3,380	5.10	310
CSA10A	25	0.04	2.3
<b>Subtotal</b>	<b>9,655</b>	<b>23.49</b>	<b>1,412.3</b>
<b>Reserve Capacity</b>	<b>6,095</b>	<b>9.30</b>	<b>558.7</b>
<b>Grand Totals</b>	<b>15,750</b>	<b>32.79</b>	<b>1,971</b>

Fig. 211-1 shows the projected flowrates over a 12 month period based on the above allocation.



Fig. 211-1: Design Flowrates



The three pump stations have been designed to meet the above delivery to participants. The pump stations could be operated in the Normal Mode, when all the facilities will be available for operation or in the Bypass Mode, when the Camp Roberts Tank (CRT) and Santa Ysabel Pump Station (SYPS) will not be available. In the Bypass Mode, the Intake Pumps will pump all the way to Rocky Canyon Tank (RCT). Since hydraulic grade line has to be limited to the design value under normal operation, the flowrate under Bypass Mode will be lower. The installed capacities, expected peak flowrates during initial phase (Phase 1) of operation based on current projections, and Bypass Mode are listed in Table 211-2.



**Table 211-2: Installed Capacities and Phase 1 Flowrates of Pump Stations**

Facility	Installed Capacity			Phase I Flowrate			Bypass Mode Capacity		
	cfs	gpm	mgd	cfs	gpm	mgd	cfs	gpm	mgd
IPS	32.79	14,717	21.20	23.49	10,543	15.18	13.17	5,911	8.51
SYPS	19.89	8,928	12.86	14.46	6,490	9.35	-	-	-
Rocky Canyon Pump Station (RCPS)	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32
Paso Robles Turnout (T2)	12.90	5,790	8.34	9.03	4,053	5.84	8.03	3,604	5.19
TCSD Turnout (T4)	1.27	570	0.82	1.03	462	0.67	-	-	-
AMWC Turnout (T6)	10.22	4,587	6.60	8.29	3,721	5.34	-	-	-
SLO/CSA10A Turnout (T11)	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32

The difference between installed capacity and Phase 1 flowrates, allows an increase of 3.26 cfs downstream of the RCPS and 5.43 cfs downstream of the SYPS, without any modifications to the Pump Stations.

Any future allocations shall take these capacity limitations into consideration. Alternately, the pump stations will have to be modified to meet higher demands.

Three storage tanks have been installed at intermediate high points along the pipeline to provide short term storage to handle emergencies and also to help in smooth operation of the Pump Stations. Details and capacities of the tanks are listed in Table 211-3:

**Table 211-3: Details of Tanks**

Tank	Tank Location (along pipeline)	Capacity, Gallons	Diameter, ft	Maximum Water Elevation, ft
Camp Roberts Tank (CRT)	Sta. 529+28	850,000	70	30
Rocky Canyon Tank (RCT)	Sta. 1785+50	850,000	70	30
Cuesta Tunnel Tank (CTT)	Sta. 2307+95	300,000	52	20

Table 211-4 provides a summary of pipeline capacities as designed.

**Table 211-4: Summary of Flowrates, Pipe Sizes, and Velocities (1)**

Unit	Description	Pipeline Diameter (inches)	Phase I		Ultimate	
			Design Flowrates (cfs)	Pipe Velocities, feet per second (fps)	Design Flowrates (cfs)	Pipe Velocities (fps)
A	IPS to Camp Roberts West Property Line	36/30	23.49	3.32/4.79	32.79	4.64/6.68
A1	Camp Roberts West Property Line to CRT	36	23.49	3.32	32.79	4.64
C	CRT Discharge to Monterey Road / Wellsona	36	23.49	3.32	32.79	4.64
C1	Monterey Road / Wellsona to T2	36/30	23.49	3.32/4.79	32.79	4.64/6.68
B	SYPS	30/24	14.46	-	19.89	-



Unit	Description	Pipeline Diameter (inches)	Phase I		Ultimate	
			Design Flowrates (cfs)	Pipe Velocities, feet per second (fps)	Design Flowrates (cfs)	Pipe Velocities (fps)
D	T2 to T4 (excluding Unit B) Turnout	24	14.46	4.61	19.89	6.33
E	T4 to T6 Turnout	24	13.42	4.27	18.62	5.93
F	T6 to RCT Inlet	18	5.14	2.91	8.40	4.76
F1	RCT	18	5.14	2.91	8.40	4.76
F2	RCPS	18	5.14	2.91	8.40	4.76
G	RCPS Discharge to Route 58/Maria Avenue	18	5.14	2.91	8.40	4.76
G1	Route 58/Maria Avenue to CTT Inlet	18	5.14	2.91	8.40	4.76
G2	CTT	18	5.14	2.91	8.40	4.76
H	Cuesta Tunnel	24 (2)	5.14	1.64	8.40	2.67
H1	Cuesta Tunnel to T11 Turnout	12	5.14	6.54	8.40	10.70 (3)

- (1) The design is based on 'dropping off' Reserve Capacity to each of the Participants in proportion to their annual entitlement. The term "Reserve Capacity Drop-Off" is not referred to as a redistribution or reallocation of reserve capacity. Rather, it represents the best estimate of future water delivery needs so that the pipeline sizes could be optimized. Also, a Participant has access to the total cumulative flowrate downstream of the Participant plus any unused reserve water. A Participant may wish to have its turnout designed for a flowrate greater than indicated in order to take advantage of peaking or to take advantage of other downstream users "drop off" in the event that they purchase the allocation.
- (2) Existing
- (3) Dictated by turnout operation

Table 211-5 provides a summary of turnout capacities as designed.

**Table 211-5: Summary of Flowrates, Pipe Sizes, and Velocities at Turnouts**

Turnout	Pipeline Diameter (inches)	Control Valve Size (inches)	Phase I		Ultimate	
			Design Flowrates (cfs)	Pipe Velocities (fps)	Design Flowrates (cfs)	Pipe Velocities (fps)
Paso Robles (T2)	24	18	9.03	2.87	12.90	4.11
TCSD (T4)	8	4	1.03	2.95	1.27	3.64
AMWC (T6)	18	10	8.29	4.69	10.22	5.78
SLO/CSA10A (T11)	12	8	5.14	6.54	8.40	10.70

Turnouts T2, T4 and T6 has globe type, self actuating control valves (Cla-Val) and T11 has electrically actuated sleeve type control valve.



**Warning 211-1: Pressure Limits Downstream of T11**

**CLOSING VALVES ON THE DOWNSTREAM SIDE OF THE SLEEVE VALVE MAY CAUSE THAT PIPE TO REACH PRESSURES IN EXCESS OF 420+ PSI, EVEN IF THE SLEEVE VALVE IS CLOSED. VERIFY PIPING BETWEEN THE SLEEVE VALVE AND THE VALVE BEING CLOSED THAT IS SUFFICIENT FOR 450 PSI BEFORE CLOSING VALVE.**

**211.2 ALLOWABLE FLOWRATES**

Based on the design, allowable flowrates at different segments of the pipelines corresponding to Normal Mode, Phase 1 (these are not limiting flows, but are included for reference) and Bypass Mode are listed in Table 211-6:

**Table 211-6: Maximum Allowable Flowrates**

Facility	Installed Capacity (Ultimate Flowrate)			Phase I Flowrate			Bypass Mode Capacity		
	cfs	gpm	mgd	cfs	gpm	mgd	cfs	gpm	mgd
IPS to CRT	32.79	14,717	21.20	23.49	10,543	15.18	13.17	5,911	8.51
CRT to Paso Robles Turnout Tee off	32.79	14,717	21.20	23.49	10,543	15.18	13.17	5,911	8.51
Paso Robles Turnout (T2)	12.90	5,790	8.34	9.03	4,053	5.84	8.03	3,604	5.19
Paso Robles Turnout Tee off to SYPS	19.89	8,928	12.86	14.46	6,490	9.35	5.14	2,307	3.32
SYPS to TCSD Turnout Tee off	19.89	8,928	12.86	14.46	6,490	9.35	5.14	2,307	3.32
TCSD Turnout (T4)	1.27	570	0.82	1.03	462	0.67	0	0	0
TCSD Turnout Tee off to AMWC Turnout Tee off	18.62	8,357	12.03	13.43	6,028	8.68	5.14	2,307	3.32
AMWC Turnout (T6)	10.22	4,587	6.60	8.29	3,721	5.34	0	0	0
AMWC Turnout Tee off to RCT	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32
RCT to CTT	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32
CTT to SLO/CSA10A Turnout Tee off	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32
SLO/CSA10A Turnout (T11)	8.40	3,770	5.43	5.14	2,307	3.32	5.14	2,307	3.32

**Warning 211-2: Never Exceed the Design Flowrates**

**NEVER EXCEED THE FLOWRATES LISTED IN TABLE 211-6 THROUGH EACH OF THE PIPELINE SEGMENTS. EXCEEDING THE FLOWRATES WILL RESULT IN OVERPRESSURIZATION AND FAILURE OF PIPELINES.**

Based on the above, to prevent over pressurization of the pipeline segments, Table 211-7 provides recommended flowrates from each pump station.



**Table 211-7: Recommended Maximum Flowrates**

Facility	Normal Mode	Bypass Mode
IPS	32.79 cfs	Flowrate to T2 (limit to 8.03) in cfs + 5.14 cfs (No flow to T4 or T6)
	14,717 gpm	Flowrate to T2 (limit to 3,604) in gpm + 2,307 gpm (no flow to T4 and T6)
	21.20 mgd	Flowrate to T2 (limit to 5.19) in mgd + 3.32 mgd (No flow to T4 and T6)
SYPS	Flowrate to T4 (limit to 1.27) in cfs + Flowrate to T6 (limit to 10.22) in cfs + 8.40 cfs	N/A
	Flowrate to T4 (limit to 570) in gpm + Flowrate to T6 (limit to 4,587) in gpm + 3,770 gpm	
	Flowrate to T4 (limit to 0.82) in mgd + Flowrate to T6 (limit to 6.60) in mgd + 5.43 mgd	
RCPS	8.40 cfs	8.40 cfs
	3,770 gpm	3,770 gpm
	5.43 mgd	5.43 mgd

**211.3 SYSTEM HYDRAULICS**

**Warning 211-3: Do not Exceed Pipe Pressure Classes**

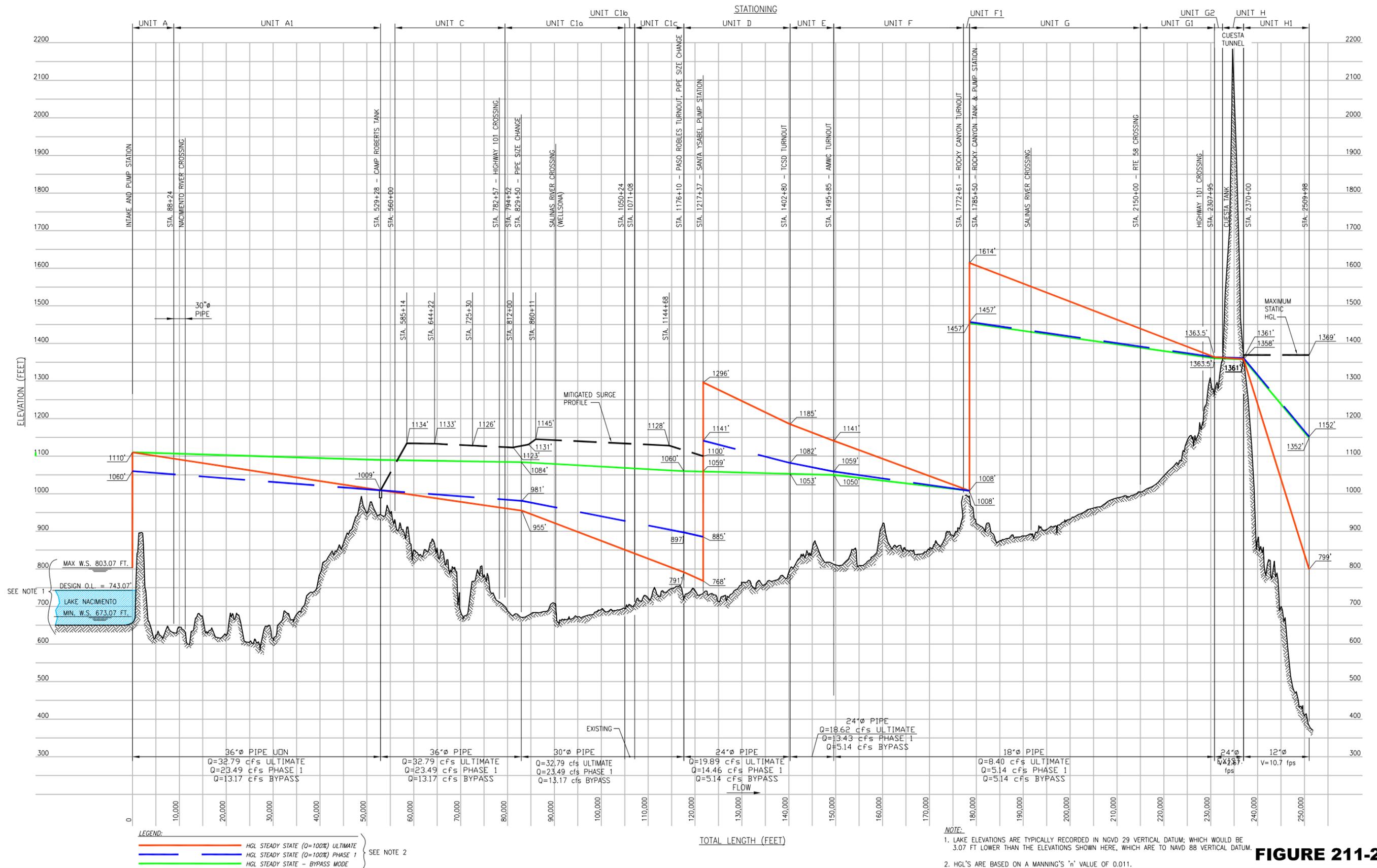
**THE PIPING SYSTEM IS DESIGNED FOR THE PIPE PRESSURE CLASSES LISTED IN CHAPTER 270. THE OPERATING PRESSURE SHALL BE LESS THAN THE PIPE PRESSURE CLASS UNDER ALL OPERATING SCENARIOS!**

The pipeline passes through an undulating terrain from Lake Nacimiento to the final turnout at San Luis Obispo. To ensure that the water at the required quantities could be delivered to all turnouts, sufficient pressure needs to be maintained at the turnouts. The Pump Stations and Tanks establish the system hydraulic grade lines to provide the required pressure.

Fig. 211-2 is the Hydraulic Profile for the entire system and provides information on the required hydraulic grade line (HGL) and corresponding ground levels along the pipeline. The HGL at each of the Pump Stations is designed to develop sufficient HGL to deliver water to the farthest turnout. This could result in higher than required HGL at turnouts closer to the Pump Stations. The control valves at the turnouts will regulate the flow to the required levels.

The Hydraulic Profile includes details for three scenarios

- Ultimate Capacity
- Phase 1 Capacity
- Bypass Mode Capacity



**FIGURE 211-2**

FB137522-MOP  
B137522-MOP



**NWP NACIMIENTO WATER PROJECT**  
San Luis Obispo County Flood Control & Water Conservation District



**211.3.1 HYDRAULIC PROFILE OF ULTIMATE CAPACITY**

Ultimate capacity corresponds to the maximum system flowrate for which the system is designed. For the design flowrate, water will be pumped from the IPS to the CRT. Flow from the CRT to Paso Robles Turnout and the SYPS will be by gravity. The SYPS will boost the pressure and feed the TCSD and AMWC Turnouts and RCT. The RCPS will transfer water from the RCT to the CTT. Flow from the CTT to the SLO/CSA10A Turnout is by gravity. Table 211-8 provides details of flowrates and the corresponding HGL at different locations.

**Table 211-8: Hydraulic Details for Ultimate Capacity**

Location	Station	Flowrate, cfs	HGL, ft	Approx. Ground Elevation, ft	Approximate Pressure at Ground Elevation	
					ft	psi
IPS	0+00	32.79	1110	830	280	121.4
CRT	529+28	32.79	1009	990	19	8.2
Tee off to T2	1176+10	32.79	791	725	66	28.6
SYPS Suction	1217+37	19.89	768	733	33	15.2
SYPS Discharge	1217+37	19.89	1296	733	563	244.0
Tee off to T4	1402+80	19.89	1185	800	385	170.0
Tee off to T6	1495+85	18.62	1141	810	331	143.5
RCT	1785+50	8.40	1008	990	18	7.8
RCPS Discharge	1785+50	8.40	1614	972	642	278.3
CTT	2307+95	8.40	1363.50	1349	14.5	6.3
T11 (Upstream of Control Valve)	2509+98	8.40	799	365	434	188.2

**211.3.2 HYDRAULIC PROFILE OF PHASE 1 CAPACITY**

Phase 1 capacity corresponds to the system flowrate based on current demand. The operation sequence and flow pattern will be similar to that of ultimate capacity, but flowrates and HGL will be different as shown in Table 211-9.



**Table 211-9: Hydraulic Details for Phase 1 Capacity**

Location	Station	Flowrate, cfs	HGL, ft	Approx. Ground Elevation, ft	Approximate Pressure at Ground Elevation	
					ft	psi
IPS	0+00	23.49	1060	830	230	99.7
CRT	529+28	23.49	1009	990	19	8.2
Tee off to T2	1176+10	23.49	897	725	172	74.6
SYPS Suction	1217+37	14.46	885	733	152	65.9
SYPS Discharge	1217+37	14.46	1141	733	408	176.9
Tee off to T4	1402+80	14.46	1082	800	282	122.3
Tee off to T6	1495+85	13.43	1059	810	249	108.0
RCT	1785+50	5.14	1008	990	18	7.8
RCPS Discharge	1785+50	5.14	1457	972	485	210.3
CTT	2307+95	5.14	1363.50	1349	14.5	6.3
T11	2509+98	5.14	1152	365	787	341.2

**211.3.3 HYDRAULIC PROFILE OF BYPASS MODE CAPACITY**

Bypass mode refers to the scenario when both the CRT and SYPS are bypassed. The Intake Pumps will pump directly to the RCT and also delivers water to all the turnouts in between. This mode is appropriate when the system demand is low and there is no flow through TCSD and AMWC Turnouts.

The capacity is limited by the design pressure of piping and other components between the IPS and the RCT corresponding to Ultimate Capacity. RCPS Pumps will transfer water from the RCT to the CTT. Flow from CTT to SLO/CSA10A Turnout is by gravity. Table 211-10 provides details of flowrates and corresponding HGL at selected locations.

**Table 211-10: Hydraulic Details for Bypass Mode Capacity**

Location	Station	Flowrate, cfs	HGL, ft	Approx. Ground Elevation, ft	Approximate Pressure at Ground Elevation	
					ft	psi
IPS	0+00	13.17	1110	830	280	121.4
CRT	529+28	13.17	1090	990	100	43.4
Tee off to T2	1176+10	13.17	1060	725	335	145.2
SYPS Suction	1217+37	5.14	1059	733	326	141.3
SYPS Discharge	1217+37	5.14	1059	733	326	141.3
Tee off to T4	1402+80	5.14	1053	800	253	109.7
Tee off to T6	1495+85	5.14	1050	810	240	104.0
RCT	1785+50	5.14	1008	990	18	7.8
RCPS Discharge	1785+50	5.14	1457	972	485	210.3
CTT	2307+95	5.14	1363.50	1349	14.5	6.3
T11	2509+98	5.14	1152	365	787	341.2



## 2022 CALENDAR OF ACTIVITIES

### TECHNICAL SUPPORT GROUP (TSG) & NACIMIENTO PROJECT COMMISSION

**TSG** (Participants & District Staff Only): Monthly, Thursdays at 2:00 PM.

**Commission** (Public Meetings): Quarterly, Thursdays at 4:00 PM.

<p><u>JAN</u>  <b>TSG</b> – Jan 13   <b>Commission</b> – Dark</p>	<p><u>FEB</u>  <b>TSG</b> – Feb 10   <b>Commission</b> – Feb 24  <i>Annual election of Chair &amp; Vice Chair; COI forms and proposal of draft FY 22-23 budget.</i></p>	<p><u>MAR</u>  <b>TSG &amp; Finance Committee</b> – Mar 10   <b>Commission</b> – Dark</p>
<p><u>APR</u>  <b>TSG</b> – Apr 14   <b>Commission</b> – Apr 28            Budget approval (<i>special mtg.</i>)</p>	<p><u>MAY</u>  <b>TSG</b> – May 12   <b>Commission</b> – May 26</p>	<p><u>JUN</u>  <b>TSG</b> – Jun 9   <b>Commission</b> – Dark</p>
<p><u>JUL</u>  <b>TSG</b> – Jul 14   <b>Commission</b> – Dark</p>	<p><u>AUG</u>  <b>TSG</b> – Aug 11   <b>Commission</b> – Aug 25</p>	<p><u>SEP</u>  <b>TSG</b> – Sep 8  <i>Request for 2023-2025 water delivery schedules.</i>   <b>Commission</b> – Dark</p>
<p><u>OCT</u>  <b>TSG</b> – Oct 13   <b>Commission</b> – Dark</p>	<p><u>NOV</u>  <b>TSG</b> – Nov 3   <b>Commission</b> – Nov 17  <i>Distribution of Next Year's Calendar of Activities.</i></p>	<p><u>DEC</u>  <b>TSG</b> – Dec 8   <b>Commission</b> – Dark</p>

**\*Meeting logistics are subject to change.** Please contact County Public Works at 805-781-5252 or [pwd@co.slo.ca.us](mailto:pwd@co.slo.ca.us) for confirmation of date, location & time.



**ATT. 6, NWP COMMISSION**

SAN LUIS OBISPO COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
**NACIMIENTO WATER PROJECT**

**TO: Nacimiento Project Commission**  
**FROM: Katie Franco, Finance Division**  
**VIA: Nola Engelskirger, Utilities Division Manager**  
**DATE: November 18, 2021**  
**SUBJECT: First Quarter Operations Budget Report (Information Only – No Action Required)**

Figures summarizing the Fiscal Year 2021-22 First Quarterly Operating Fund Budget are provided for your information. With 25% of the year elapsed, total expenditures and purchase order commitments are at 9.9% of budget. This includes Non-Routine projects that fluctuate during the fiscal year. More notably, annual Routine Operations and Maintenance efforts are a less than budgeted levels at 9.2% of the budget.

FY2021-22 Nacimiento Operating Fund					
		<u>Budget</u>	<u>Expenses &amp; Purchase Orders</u>	<u>Expenses and Purchase Orders as a % of Budget</u>	<u>Balance Available</u>
	Routine O&M	4,598,523	423,037	9.2%	4,175,486
	Non Routine O&M Projects	2,978,676	327,365	11.0%	2,651,311
	Capital Outlay Projects	-	-	0.0%	-
	<b>Total</b>	<b>7,577,199</b>	<b>750,402</b>	<b>9.9%</b>	<b>6,826,797</b>
	[a] Variable Energy	2,799,719	890,707	31.8%	1,909,012

[a] PG&E invoices for Variable Energy usage. Costs are billed to participants based upon actual usage, and are not included in Participants' Installment Billings or Final Billings.

If you have any questions, please feel free to contact me at (805) 781-5250 or via e-mail at [kfranco@co.slo.ca.us](mailto:kfranco@co.slo.ca.us). Staff will be available to answer specific questions at the meeting.

**Nacimient Water Operating Fund**  
**Budget Status Report**  
**FY 2021-22**

A	B	C	D	D	E	I	J	K	L	M					
carry			New Budget	Roll-Fwd Budget	Internal	Budget	Quarter 1	Total	Purchase	Total Expenses	Exps & POs	Available			
fwd		WBS Element	FY 2021-22	FY 2020-21	Revisions	FY 2021-22	July-Sep	Expenses	Orders (POs)	and POs	% of Budget	Budget			
1		<b>Routine Operation and Maintenance</b>													
2		MASTER WATER CONTRACT	300420.01.03			\$ 640,448		\$ -	\$ -	\$ -	0.0%	\$ 640,448			
3		WATER CONSERVATION MANAGEMENT	300420.04			-		-	-	-	0.0%	-			
4		WATER QUALITY SUPPORT/ANALYSIS	300420.05 & 300420.06/.06.01.03/.06.02			215,092		33,004		33,004	15.3%	182,088			
5		REGULATORY AGENCY/DPH	/06.03 300420.02			12,476				-	0.0%	12,476			
6		INVASIVE SPECIES/QUAGGA MUSSEL	300420.06.01.01/.06.01.02/.09.02			128,081		12,881		12,881	10.1%	115,200			
7		ENVIRONMENTAL MITIGATION	300420.09/09.01			86,819		5,003		5,003	5.8%	81,816			
8		UTILITIES OPERATIONS AND OFFICE ENGINEERING	300420.07			224,663		42,340		42,340	18.8%	182,322			
9		LAKESIDE CONTRACTS	300420.01.05			14,442		197		197	1.4%	14,245			
10		WATER RIGHTS	300420.01.04		61,406	61,406		-		-	0.0%	61,406			
11		GENERAL-ACCOUNTING	300420.01			219,767		22,914		22,914	10.4%	196,853			
12		COUNTY WIDE OVERHEAD	300420.01.01			110,163		27,162		27,162	24.7%	83,001			
13		CONTRIBUTION TO ISF/NEW EQUIP	300420.01.02			20,750		(3,192)		(3,192)	-15.4%	23,942			
14		GENERAL UNITS	300420.10			444,084		32,574		32,574	8.9%	404,357			
15		UNIT A	300420.10.A			244,959		74,401		74,401	30.4%	170,558			
16		UNIT A1	300420.10.A1			55,964		5,599		5,599	10.0%	50,365			
17		UNIT B	300420.10.B			184,624		52,625		52,625	28.5%	131,999			
18		UNIT C	300420.10.C			33,291		1,065		1,065	3.2%	32,226			
19		UNIT C1	300420.10.C1			36,758		1,331		1,331	3.6%	35,427			
20		UNIT D	300420.10.D			21,667		2,053		2,053	9.5%	19,614			
21		UNIT E	300420.10.E			20,623		416		416	2.0%	20,207			
22		UNIT F	300420.10.F			20,753		917		917	4.4%	19,836			
23		UNIT F1	300420.10.F1			16,137		3,874		3,874	24.0%	12,263			
24		UNIT F2	300420.10.F2			148,167		40,902		40,902	27.6%	107,265			
25		UNIT G	300420.10.G			27,967		5,091		5,091	18.2%	22,876			
26		UNIT G1	300420.10.G1			29,152		3,182		3,182	10.9%	25,970			
27		UNIT G2	300420.10.G2			19,052		414		414	2.2%	18,638			
28		UNIT H	300420.10.H			3,381		-		-	0.0%	3,381			
29		UNIT H1	300420.10.H1			28,709		5,593		5,593	19.5%	23,116			
30		UNIT T-2	300420.10.T2			46,892		1,233		1,233	2.6%	45,659			
31		UNIT T-4	300420.10.T4			13,038		751		751	5.8%	12,287			
32		UNIT T-6	300420.10.T6			13,859		145		145	1.0%	13,714			
33		UNIT T-9	300420.10.T9			10,145		180		180	1.8%	9,965			
34		UNIT T-11/11A	300420.10.T11/T11A			31,926		5,431		5,431	17.0%	26,495			
35		UNIT T-11B	300420.10.T11B			-		-		-	0.0%	-			
36		REIMBURSABLE BILLINGS	300420.11			-		197		197	0.0%	(197)			
37		REIMB BILLINGS: EMERGENCY WTR LINE BREAK MAY 2018	300420.11.20/40163744			-		(57,420)		(57,420)	0.0%	57,420			
38	(*)	NACI WATER SALE PROGRAM	300420.12		4,735	4,735		1,057		1,057	1762.3%	(78,711)			
39	(*)	SAN ANTONIO SPILLWAY REHAB	(*) 300420.13		98,916	98,916		-		-	0.0%	98,916			
40	(*)	LEGAL	300420.10.A1.01 & .02		1,309,617	1,309,617		11,575		11,575	0.9%	1,298,042			
41		<b>SUBTOTAL: ROUTINE OPERATIONS AND MAINTENANCE</b>				<b>\$ 3,123,849</b>	<b>\$ 1,474,674</b>	<b>\$ -</b>	<b>\$ 4,598,523</b>	<b>\$ 333,495</b>	<b>\$ 333,495</b>	<b>\$ 89,542</b>	<b>\$ 423,037</b>	<b>9.2%</b>	<b>\$ 4,175,486</b>
42		<b>Non-Routine O&amp;M</b>													
43		MISC. FIBER OPTIC REPAIR (rebudget annually) (\$6500 MISC FIBER) and (\$100K MISC PROJECTS)	(*) 300420.08.TBD			\$ 6,500		\$ -		-	0.0%	\$ 6,500			
44		INTERLAKE TUNNEL PLANG (place holder)	(*) 300420.08.02			-		-		-	0.0%	-			
45	(*)	NORTH SALINAS RIVER CROSSING REPAIR (MAINT: TYPE 3)	300641		1,654,536	1,654,536		10,219		10,219	19.2%	1,336,058			
46	(*)	5 YR INTAKE INSPECTION (EVERY 5 YRS. 2022/23)	(*) 300420.08.03			-		-		-	0.0%	-			
47	(*)	5 YR PIPELINE CLOSE INTERVAL SURVEY (EVERY 5 YRS) (CLSD)	(*) 300420.08.04			-		-		-	0.0%	-			
48	(*)	SANTA MARG CRK BRIDGE PIPE RELOCATION	(*) 300420.08.05		856,848	856,848		-		7,045	0.8%	849,804			
49	(*)	INTAKE PUMP SYSTEM IMPROVEMENTS (5 SYSTEMS)	(*) 300420.08.12			-		-		-	0.0%	-			
50	(*)	INTAKE PS: SLOPE REPAIR AND DRAINAGE WORK (S/B CLSD Q1 20/21)	(*) 300420.08.14			-		-		-	0.0%	-			
51	(*)	POWER MONITORING AT INTAKE (CLSD)	(*) 300420.08.15			-		-		-	0.0%	-			
52	(*)	SCADA EFFORTS AT BOOSTER STN PROJECT	(*) 300420.08.16		309,425	309,425		1,894		1,894	0.6%	307,531			
53	(*)	SCADA EFFORTS AT BOOSTER STN O&M (REBUDGETED ANNUALLY)	(*) 300420.08.16			-		-		-	0.0%	-			
54	(*)	SYPS EFFICIENCY ALTERNATIVES (CXL)	(*) 300420.08.19			-		-		-	0.0%	-			
55	(*)	GENERATOR PAD AT BOOSTER STN INSTALL (33%)	(*) 300420.08.22			-		-		-	0.0%	-			
56	(*)	AIR VACS REPAIRS AND PREVENTION	(*) 300420.08.23		51,367	51,367		(51)		(51)	-0.1%	51,418			
57	(*)	RAISE VALVES ON ROCKY CANYON RD	(*) 300420.08.26			-		-		-	0.0%	-			
58	(*)	UNANTICIPATED NON-ROUTINE PROJECTS	(*) 300420.08.TBD			100,000		-		-	0.0%	100,000			
59		<b>SUBTOTAL: NON ROUTINE OPERATION &amp; MAINTENANCE - (NON-CAPITAL ACCOUNTS)</b>				<b>\$ 106,500</b>	<b>\$ 2,872,176</b>	<b>\$ -</b>	<b>\$ 2,978,676</b>	<b>\$ 12,062</b>	<b>\$ 12,062</b>	<b>\$ 315,303</b>	<b>\$ 327,365</b>	<b>11.0%</b>	<b>\$ 2,651,311</b>
60		<b>Capital Outlay</b>													
61	(*)	UNANTICIPATED NON-ROUTINE PROJECTS	TBD			100,000		-		-	0.0%	-			
61		<b>SUBTOTAL: CAPITAL OUTLAY (CAPITAL ACCOUNTS)</b>				<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>0.0%</b>	<b>\$ -</b>
62		<b>TOTAL BUDGET / INSTALLMENT BILLINGS</b>				<b>\$ 3,330,349</b>	<b>\$ 4,346,850</b>	<b>\$ -</b>	<b>\$ 7,577,199</b>	<b>\$ 345,557</b>	<b>\$ 345,557</b>	<b>\$ 404,845</b>	<b>\$ 750,402</b>	<b>9.9%</b>	<b>\$ 6,826,797</b>
63		VARIABLE ENERGY COSTS (NON-CAPITAL ACCOUNT)	300420.03			\$ 2,799,719		890,707		890,707	31.8%	\$ 1,909,012			
64		BUDGET FOR UNANCITPATED CAPITAL PROJECT - (CAPITAL ACCT)	n/a			103,750		103,750		-	0.0%	103,750			
65		<b>TOTAL</b>				<b>\$ 6,233,818</b>	<b>\$ 4,346,850</b>	<b>\$ -</b>	<b>\$10,480,668</b>	<b>\$ 1,236,264</b>	<b>\$ 1,236,264</b>	<b>\$ 404,845</b>	<b>\$ 1,641,109</b>	<b>15.7%</b>	<b>\$ 8,839,559</b>



**TO: Nacimiento Project Commission**  
**FROM: Wes Thomson, Utilities Division**  
**DATE: November 18, 2021**  
**SUBJECT: Item VI.A: Consider Approval of the Tesla Battery Energy Storage Project**

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### **SUMMARY**

On August 27, 2020, your Commission was presented with the option to take advantage of a State program (SGIP) designed to help save energy costs through a strategy called “peak shaving.” The concept involves partnering with Tesla to install their commercial Powerpack battery systems that will be charged from grid power provided by PG&E during off-peak hours, and then that stored energy will be used to offset pump station demand (at Intake and Rocky Canyon pump stations) during peak demand hours of the day in which energy prices are higher.

The TSG and County staff have reviewed the technical details. Tesla is confident that, despite NWP history with unplanned outages, the minimum battery cycling requirements can be fulfilled. Although there isn’t unanimous agreement among the TSG, the majority opinion is that the risk of penalty for non-operation is low, and the cost-savings opportunity is real. As of September, the majority of the TSG had expressed support on moving forward on the project.

Paso Robles’ comments on why it cannot support moving forward with the project are attached for the Commission’s consideration.

Tesla is finalizing plans to submit to County Permitting, and the anticipation is that Tesla will have a set of plans ready for construction in time to start in February 2022, which will enable them to meet the SGIP program funding deadline that requires the system to be operational by April 2022.

### **RECOMMENDATION**

Staff recommends that the Commission decide on whether to give its approval for the project or determine not to continue forward.

### **Attachments**

1. Cost-Benefit Questions discussed by TSG Sept-Nov 2021, and District’s response (excludes attachments, but available on request).
2. Follow up comments from Paso Robles, via email, 11/15/21.



**TO: NWP Technical Support Group**  
**FROM: Kyle James, Katie Franco, & Wes Thomson**  
**DATE: November 12, 2021**  
**SUBJECT: Tesla Cost/Benefit – Follow-up Response to 11/4 TSG Discussion**

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**ISSUE 1: PENALTY/ LIABILITY FROM INSUFFICIENT LOAD.**

It's not clear how liability/penalty would be distributed among Participants in the event of an inability to operate the system.

- For example, a penalty of \$440,000 per year would apply for each year the NWP cannot operate for at least 104 days. Since the system would have limited deliveries during this time, the penalty cannot be directly apportioned to respective participants over any benefit received.

**Discussion:**

The solution proposed by Paso Robles for TSG consideration, 11/4 – The NWP could consider apportioning any penalty to respective Participants according to the total benefit realized by each over the 5-year or 10-year period.

District response –

Until the Participants and District agree to an alternative approach, the District will rely on the Participant's existing entitlement contracts to apportion costs. See [Article 16](#) in the attached representative contract for more discussion on the current agreement for sharing the costs of the NWP.

**ISSUE 2: LIABILITY FROM OTHER TERMS.**

Is there any other liability obligation that would be assigned to the District for the Tesla system, beyond failure to maintain sufficient load at subject facilities that would allow Tesla to cycle batteries per program requirements? For example, would there be any liability if the facilities were destroyed (e.g., wildfire, earthquake, vandalism, etc.) or other circumstances for which there would be costs the District would be liable to pay?

**Discussion:**

What would cause the NWP to have to repay for the "cost" of the batteries<sup>1</sup>?

District response –

Tesla's O&M Agreement indicates that the "Termination Payment," applicable during the first five years of the agreement, would require the District/NWP to pay "10% of the SGIP Incentive" "for each year or portion thereof remaining in the first (5) five years of the Term" per Sections 11.(c) "Breach; Remedies" in the draft Commercial Products Operation and Maintenance

Agreement (August 2020). Given that the SGIP Incentive is \$2,972,000 for each Powerpack system (one for Naci Intake Pump Station and one for Rocky Canyon Pump Station) – per draft Price Sheet of the “Tesla Energy Products Purchase Agreement” (August 2020) – then the District would be liable for up to 50% of the SGIP Incentive once each of the battery systems is installed. For each system, that liability decreases at a rate of 10% per year over the five-year contract period, at which time the District could terminate without financial penalty. The table below summarizes the estimated termination payment.

<u>NWP IPS Pump Station</u>			<u>NWP Rocky Canyon Pump Station</u>		
<b>Time from the Date of Product Install</b>	<b>% of SGIP Owed to Tesla</b>	<b>Termination Payment Estimate</b>	<b>Time from the Date of Product Install</b>	<b>% of SGIP Owed to Tesla</b>	<b>Termination Payment Estimate</b>
0 years	50%	\$ 1,486,000	0 years	50%	\$ 1,486,000
1 years	40%	\$ 1,188,800	1 years	40%	\$ 1,188,800
2 years	30%	\$ 891,600	2 years	30%	\$ 891,600
3 years	20%	\$ 594,400	3 years	20%	\$ 594,400
4 years	10%	\$ 297,200	4 years	10%	\$ 297,200
5 years	0%	\$ -	5 years	0%	\$ -

Notes:

1. Battery cost (986 kW / 3944 kWh “Powerpack System”), i.e., the “Product Value” is approximately \$2,205,914, per draft Price Sheets for both Intake Pump Station and Rocky Canyon Pump Station per “Tesla Energy Products Purchase Agreement,” August 2020.

**ISSUE 3: INSURANCE PREMIUM, COVERAGE.**

How would the new assets be insured, and what is the premium increase? If the battery systems were destroyed (e.g., wildfire, earthquake, etc.), will the current insurance provide coverage?

**Discussion:**

District response –

Summarizing the County’s self-insured policy:

The County is self-insured, and any claims paid out by the County would be factored into the following year’s premium for that department (e.g., Public Works) during the annual budgeting preparation for the next fiscal year. That claim dollar amount would remain on a list for seven years, used to determine the “risk” associated with that department. And since assets are bought and sold throughout the year, we generally only update Risk Management with a notice of new assets once per year.

Typically, we pay insurance through PW overhead, but if we have a large claim paid out by the County and that can be directly attributed to NWP, the Participants would be responsible for the increased premiums.

County Public Works has not yet received a determination from Risk Management on whether there are any exclusions for coverage of the batteries, but all of the infrastructure in the County is covered under this policy, and Public Works staff don't see why this situation would be any different.

**ISSUE 4: BENEFIT SHARING.**

How to apportion the energy savings benefit?

**Discussion:**

Paso Robles feels that Participants should agree to how the potential savings from the project are distributed.

District response –

The potential savings are dependent on the Participant's utilization of the battery system, and the actual savings will be reflected in a reduced variable cost to the NWP operations. Similar to "Issue 1," – until the Participants and District agree to an alternative approach, the District will rely on the Participant's existing entitlement contracts to determine variable costs. See [Article 16](#) in the attached representative contract for more discussion on the current agreement for sharing the costs of the NWP.

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FOR REFERENCE

Five new questions noted by WT on the [Tesla Battery Energy Storage Project](#) identified at the TSG on 10/14 and discussed further on 11/4 –

1. How to apportion the energy savings benefit?
2. How to allocate the costs of any liabilities incurred?
3. Are there other liabilities that exist that have not been considered (beyond the potential of a financial penalty for not meeting the minimum cycling requirements)?
4. How will NWP insurance need to account for the assets?
5. Are there financing principles or examples of past decisions by the Participants that might offer guidance in considering these questions?

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Attachments

1. Representative NWP Water Delivery Entitlement Contract & Amendments (T-2, Paso Robles).
2. DRAFT Tesla Energy Products Purchase Agreement, August 2020. (NWP Intake Pump Station).
3. DRAFT Tesla Energy Products Purchase Agreement, August 2020. (NWP Rocky Canyon Pump Station).
4. Commercial Products Operation and Maintenance, September 1, 2020.



## CITY OF EL PASO DE ROBLES

*"THE PASS OF THE OAKS"*

**TO:** Wes Thomson, P.E.  
Utilities Division Engineer  
County of San Luis Obispo

**FROM:** Christopher Alakel, P.E.  
Interim Public Works Director  
City of Paso Robles

**SUBJECT:** Tesla Battery Storage Project

November 15, 2021

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The City of Paso Robles PW Department (City) has great concern over implementation of the proposed Tesla Battery Storage Project for the Nacimiento Water Project Intake Pump Station and the Rocky Canyon Pump Station. The potential benefits from the project do not justify the risks that will be shouldered by the NWP participants with implementation of this project. Based on estimates provided by Tesla, the battery storage project could save approximately \$155,000 per year of operation. However, costly penalties will be incurred if Tesla is unable to cycle the batteries a specified number of times during each of the first five years. These cycling requirements are estimated by Tesla to be equivalent to 104 days of NWP operation each calendar year. Penalties could range from \$594,400 to \$2.97MM and could result in the NWP participants paying much more than the total projected benefit. The NWP has experienced extended periods of outage during its short operating history. Future extended outages would expose NWP participants to these penalties.

The City has other concerns regarding the risks and uncertainties associated with Tesla's Proposal:

- The County/NWP Participants will need to enter a service agreement with Tesla for operation of the system after 10 years, and the costs of this future agreement have not been determined.
- NWP Participants will be responsible for costs to decommission the battery facilities (batteries, inverters, and other electrical components) including transporting the battery for recycling in Nevada, or disposal. The costs associated with end-of-life decommissioning are unknown.
- Any damage to the battery systems not the direct fault of Tesla (e.g., fire, earthquake, vandalism, extreme weather etc.) will be borne by the NWP Participants.

It's also important to recognize that the battery system would provide no practical benefit to operational reliability for the NWP and that all estimates of savings are based on analyses conducted by Tesla that have not been verified by the County or any third party. Tesla does not guarantee any savings will be achieved. The potential benefits from the project do not warrant the financial liability and added system complexity.

For these reasons we cannot support moving forward with the Tesla Battery Storage Project.