

City of Sutter Creek

Update on Water Board Compliance with 13267 Letters

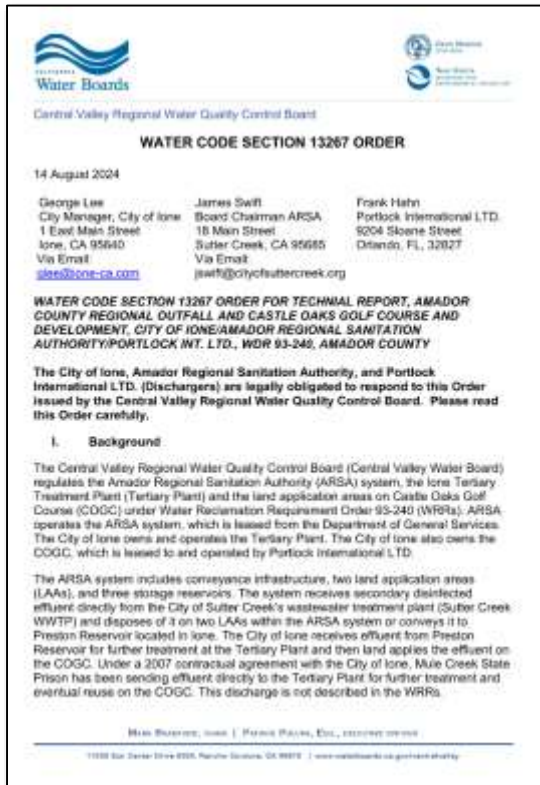
January 6, 2025

Overview

13267 Orders

1. Individual orders issued to ARSA, Ione, and MCSP (“Individual Water Balance Orders”)
2. Joint order issued to all parties as one group

Individual order (1 of 3)



This is a scanned image of a formal order document. At the top, it features the Central Valley Regional Water Quality Control Board logo and the title 'WATER CODE SECTION 13267 ORDER'. The date is '14 August 2024'. The order is addressed to George Lee, City Manager of Ione, CA. It lists contact information for James Swift (ARSA) and Frank Hahn (Portlock International LTD). The subject is a technical report for the Amador County Regional Outfall and Castle Oaks Golf Course and Development. The order states that the City of Ione, Amador Regional Sanitation Authority, and Portlock International LTD are legally obligated to respond to this order. It includes a background section explaining the ARSA system and the City of Ione's role. The footer contains the name of the board president, Mark Burdette, and the board's address and website.

Central Valley Regional Water Quality Control Board

WATER CODE SECTION 13267 ORDER

14 August 2024

George Lee
City Manager, City of Ione
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Via Email:
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James Swift
Board Chairman ARSA
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Via Email:
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Frank Hahn
Portlock International LTD
5204 Sloane Street
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WATER CODE SECTION 13267 ORDER FOR TECHNICAL REPORT, AMADOR COUNTY REGIONAL OUTFALL AND CASTLE OAKS GOLF COURSE AND DEVELOPMENT, CITY OF IONE/AMADOR REGIONAL SANITATION AUTHORITY/PORTLOCK INT. LTD., WDR 93-240, AMADOR COUNTY

The City of Ione, Amador Regional Sanitation Authority, and Portlock International LTD. (Dischargers) are legally obligated to respond to this Order issued by the Central Valley Regional Water Quality Control Board. Please read this Order carefully.

I. Background

The Central Valley Regional Water Quality Control Board (Central Valley Water Board) regulates the Amador Regional Sanitation Authority (ARSA) system, the Ione Tertiary Treatment Plant (Tertiary Plant) and the land application areas on Castle Oaks Golf Course (COGC) under Water Reclamation Requirement Order 93-240 (WR93a). ARSA operates the ARSA system, which is leased from the Department of General Services. The City of Ione owns and operates the Tertiary Plant. The City of Ione also owns the COGC, which is leased to and operated by Portlock International LTD.

The ARSA system includes conveyance infrastructure, two land application areas (LAAs), and three storage reservoirs. The system receives secondary disinfected effluent directly from the City of Sutter Creek's wastewater treatment plant (Sutter Creek WWTP) and disposes of it on two LAAs within the ARSA system or conveys it to Preston Reservoir located in Ione. The City of Ione receives effluent from Preston Reservoir for further treatment at the Tertiary Plant and then land applies the effluent on the COGC. Under a 2007 contractual agreement with the City of Ione, Mule Creek State Prison has been sending effluent directly to the Tertiary Plant for further treatment and eventual reuse on the COGC. This discharge is not described in the WR93a.

Mark Burdette, Board President, Executive Director

1000 San Joaquin Street 9505, Hanford, California, CA 93230 | www.waterboards.ca.gov/cvrcd/shqby

Joint order



This is a scanned image of a formal order document. At the top, it features the Central Valley Regional Water Quality Control Board logo and the title 'WATER CODE SECTION 13267 ORDER'. The date is '14 August 2024'. The order is addressed to Patrick Cowello (California Department of Corrections and Rehabilitation), Catherine Frazer (California Department of Forestry and Fire Protection), and Crystal Jack (Jackson Rancheria Development Corporation). It lists contact information for George Lee (Ione), James Swift (ARSA), and Frank Hahn (Portlock International LTD). The subject is a technical report for the Mule Creek State Prison, California Department of Corrections and Rehabilitation, California Department of Forestry and Fire Protection, Amador County Regional Outfall and Castle Oaks Golf Course and Development, City of Ione/Amador Regional Sanitation Authority/Portlock Int. Ltd., Ione Wastewater Treatment Facility, and City of Ione/Jackson Rancheria Development Corporation, Amador County. The order states that the California Department of Corrections and Rehabilitation, the California Department of Forestry and Fire Protection, the City of Ione, the Amador Regional Sanitation Authority, Jackson Rancheria Development Corporation, and Portlock International LTD are legally obligated to respond to this order. It includes a background section explaining the ARSA system and the City of Ione's role. The footer contains the name of the board president, Mark Burdette, and the board's address and website.

Central Valley Regional Water Quality Control Board

WATER CODE SECTION 13267 ORDER

14 August 2024

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WATER CODE SECTION 13267 ORDER FOR TECHNICAL REPORT, MULE CREEK STATE PRISON, CALIFORNIA DEPARTMENT OF CORRECTIONS AND REHABILITATION/CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION, AMADOR COUNTY REGIONAL OUTFALL AND CASTLE OAKS GOLF COURSE AND DEVELOPMENT, CITY OF IONE/AMADOR REGIONAL SANITATION AUTHORITY/PORTLOCK INT. LTD, IONE WASTEWATER TREATMENT FACILITY, CITY OF IONE/JACKSON RANCHERIA DEVELOPMENT CORPORATION, AMADOR COUNTY

The California Department of Corrections and Rehabilitation, the California Department of Forestry and Fire Protection, the City of Ione, the Amador Regional Sanitation Authority, Jackson Rancheria Development Corporation, and Portlock International LTD (Parties) are legally obligated to respond to this Order issued by the Central Valley Regional Water Quality Control Board. Please read this Order carefully.

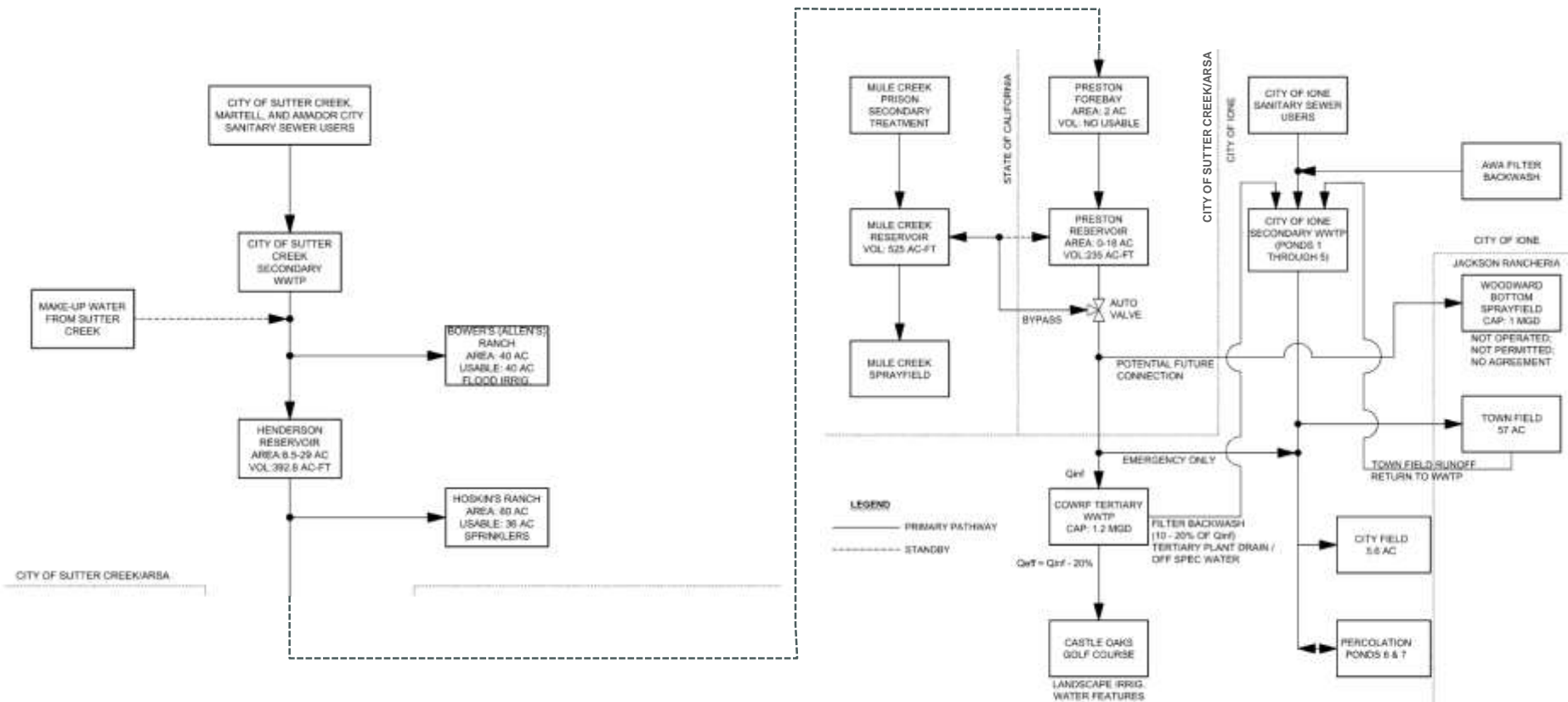
I. Introduction

The Central Valley Regional Water Quality Control Board (Central Valley Water Board or Board) regulates several interconnected wastewater treatment and disposal facilities

Mark Burdette, Board President, Executive Director

1000 San Joaquin Street 9505, Hanford, California, CA 93230 | www.waterboards.ca.gov/cvrcd/shqby

ARSA System Diagram



Water Board's Purpose for Issuing the 13267 Letters

1. Existing permits are out of date and not reflective of true system capacities
2. Lack of capacity cited as an ongoing compliance problem
3. Establish individual system capacities under average and 100 year return period (100 RP) rainfall conditions (“intended to be individual exercises, if each was operated independently”)
4. Then if the parties intend to continue to operate a joint system, establish a joint water balance and a plan for creating the required capacity

13267 Letter Requirements

1. Current and forecasted flows (5 years)
2. Disposal acreages and agronomic rates
3. Water balance under average and 100-RP conditions
4. Calculations certified by the ARSA, Ione, and Portlock International, LTD, owner of Castle Oaks Golf Course (COGC) (“Parties”).
5. Any changes to collection system, treatment plant, and disposal features or their operation planned over the next 5 years.
6. Calculation of any excess effluent that is not addressed by current system capacity.

Timeline

Step	Date	Status
Draft 13267 Letters Issued	June 28, 2024	Completed
Meeting at Water Board	July 16, 2024	Completed
Draft 13267 Feedback letter issued	July 30, 2024	Completed
Final 13267 Letters Issued	August 14, 2024	Completed
Status Meeting at Water Board	October 30, 2024	Completed
Deadline for Individual Water Balance Technical Memos	December 13, 2024	Completed
Individual Water Balance Review Meeting @ Water Board	January 27, 2025	Scheduled
Deadline for Signed Statement of Intent from each Party	February 1, 2025	In Progress
Deadline for Joint Water Balance Technical Memos	May 1, 2025	Kicking off

Individual Water Balance Results

Growth projection for next 5 years, offset by reduced sewer infiltration and inflow (I/I):

**Table 2: Future Sutter Creek WWTP Flow Projections
Based on Population Growth and I/I Reduction Projects**

Year	ADWF (MGD)	Model Peak Month Flow (MGD)
2024	0.313	2.819
2029	0.319	2.687
Total Change	+2.17%	-4.7%

Individual Water Balance Results

Table 4: Summary of Water Balance Calculation Results

Row Number	Row Calculations	Parameter	Water Balance Scenario Results					
			Uncalibrated Current Flows		Calibrated Current Flows		Calibrated Future Flows	
		Climate Conditions	RP100 (Year 1)	Avg Year (Year 2)	RP100 (Year 1)	Avg Year (Year 2)	RP100 (Year 1)	Avg Year (Year 2)
Inflow Results								
A	--	WWTP Effluent (Ac-ft)	503.2	442.7	529.8	457.4	526.5	459.7
B	--	Precipitation and Runoff (Ac-ft)	230.6	120.1	230.6	120.1	230.6	120.1
C	--	Unmet Irrigation Demands (Ac-ft)	74.9	157.3	79.3	183.2	78.2	183.7
Storage Facilities Results								
D	--	Henderson Reservoir Max Storage Volume (Ac-ft)	392.8	281.7	392.8	294.1	392.8	291.3
E	--	Preston Reservoir Max Storage Volume (Ac-ft)	135.0	47.3	165.9	51.4	157.1	51.4
F	--	Henderson Reservoir Evaporation (Ac-ft)	66.5	53.7	67.0	55.5	67.3	55.3
G	--	Preston Reservoir Evaporation (Ac-ft)	33.5	43.1	42.5	18.7	41.2	18.7
Disposal Results								
H	--	Bower's Ranch Irrigation Demands (Ac-ft)	128.3	118.6	128.3	118.6	128.3	118.6
I	--	Hoskin's Ranch Irrigation Demands (Ac-ft)	115.5	106.7	115.5	106.7	115.5	106.7
J	--	COWRF & COGC Irrigation Demands (Ac-ft)	423.4	481.7	423.4	481.7	423.4	481.7
Overall Calculation Results								
K	(A+B)	Total Inflows (Ac-ft)	733.8	562.8	760.4	577.5	757.1	579.8
L	(F+G+H+I+J)	Total Outflows (Ac-ft)	767.3	803.8	776.7	781.2	775.7	780.9
M	--	Unmet Irrigation Demands (Ac-ft)	74.9	157.3	79.3	183.2	78.2	183.7
N	(D+E), or as shown ⁽¹⁾	Maximum Storage Volume Required (Ac-ft)	527.8	326.6 ⁽¹⁾	558.7	342.7 ⁽¹⁾	549.9	339.8 ⁽¹⁾
O	(627.8 Ac-ft – N)	Unutilized Storage Capacity at Peak Storage (Ac-ft)	100.0	298.8	69.1	282.3	77.9	285.1

(1) The peak month storage volumes for Henderson and Preston Reservoirs may be in different months than the overall system's peak storage month, resulting in minor discrepancies of 2.4 to 2.9 Ac-ft between Row N values and (D+E) calculations. Where discrepancies occur, Row N displays overall peak storage month volumes from water balance calculations.

ARSA Individual Water Balance Finding Summary:

1. Included certified flows, disposal capacities, and treatment rates from Lone and Castle Oaks
2. Without MCSP flows, the ARSA system does have adequate capacity in both rainfall scenarios but may have a shortfall of supply
3. The surplus irrigation (disposal) capacity is 78 – 185 acre-feet per year (AF/y)
4. This surplus capacity is not sufficient for:
 - MCSP contractual discharges (350 AF/y)
 - MCSP typical discharges (283 AF/y)
 - Growth at MCSP or Lone

Note: Findings may change based on Water Board input and any requirements for revision.

MCSP Individual Water Balance Finding Summary:

1. Wastewater flows

- Current flow: 0.38 Mgal/d
- **5-year projected flow: 0.54 Mgal/d (modeled)**
- **MCSP and MCIC max potential occupancy: 0.678 Mgal/d (modeled)**
- **Permitted treatment capacity: 0.74 Mgal/d (modeled)**

2. Storage and disposal components

- Existing Reservoir: 155 Mgal
- Existing Land Application Area: 200 acres
- Expansion Land Application Area (proposed in 2015, not constructed): 61 AC
- ARSA Agreement: 350 AF

Table 8
2013 through 2019 Average
COWRP Monthly Discharge

Month	Mgal	Acre-Feet
October	9.5	29.2
November	3.9	12.0
December	0.3	0.9
January	0.5	1.4
February	1.7	5.3
March	0.0	0.0
April	0.0	0.0
May	4.0	12.3
June	10.2	31.2
July	15.0	46.1
August	27.1	83.2
September	19.9	61.0
Total	92.1	282.7

MCSP Individual Water Balance Finding Summary:

Flow Scenario	All Storage/Disposal Performed On Site, No Upgrades	All Storage/Disposal Performed On Site, with 61 AC Additional LAA	Storage/Disposal On Site plus Water Transfer to ARSA, Volume (AF)
5-year projected flow: 0.54 Mgal/d	Not compliant	Not compliant	283 AF
MCSP and MCIC max potential occupancy: 0.67 Mgal/d	Not compliant	Not compliant	350 AF (plus additional onsite LAAs)
Permitted treatment capacity: 0.74 Mgal/d	Not compliant	Not compliant	350 AF (plus additional onsite LAAs)

Notes:

MCSP report also discusses all on-site storage/disposal upgrades options.

Findings may change based on Water Board input and any requirements for revision.

Status Summary and Next Steps

1. ARSA system can take 78 – 185 AF/y from MCSP, but MCSP needs to discharge up to 283 AF/y to ARSA (350 for their buildout) and/or develop expansions to onsite infrastructure
2. Lone's water balance works if they can continue to use their percolation beds. But Water Board may force lining those ponds which would cause a significant disposal shortfall at Lone.
3. Lone may need some Castle Oaks Water Reclamation Facility (COWRF) capacity in the future. COWRF needs an upgrade.
4. CDCR verbally indicated intent to participate in the Joint Water Balance effort with the goal of staying part of the system
5. Joint Water Balance effort is starting. Final report is due to Water Board on May 1, 2025

