Injury and Illness Prevention Plan Update

PA 24 Committee No. 4.B Daniel Vasquez Manager of Operations December 5, 2023





Recommendation

That the PA 24 Committee approve the addition of the Silica Exposure Control Program to SAWPA's Injury and Illness Prevention Plan (IIPP).

Injury and Illness Prevention Plan

 On October 15, 2013, the SAWPA Commission adopted Resolution 2013-10 which established an Injury and Illness **Prevention Plan**.

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IIPP Programs

Programs in Teal are Brine Line Employee specific.

Programs in Black are SAWPA wide.

1	ACCIDENT REPORT
2	Bloodborne Patho
3	Air Compressor an
4	Confined Space Er
5	Driver Safety
6	Ergonomics
7	Fall Protection
8	Hand and Portable
9	Hazard Communic
10	Hazardous Materi
11	HAZWOPER
12	Hearing Conservat
13	Heat Stress
14	Hot Work
15	Ladder Safety
16	Line Location
17	Lock-out Tag-out
18	Machine Guarding
19	Outside Regulator
20	PPE
21	Respiratory Protect
22	Safety Orientation
23	Traffic Control and
24	Trenching and Exc
25	Silica Exposure Co

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IIPP Updates

IIPP is reviewed annually for new requirements.

 Program audits range from annually to every three (3) years depending on the program.

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Silica Exposure Control Program

Title 8 of the California Code of Regulations (T8CCR), section 5204 (Occupational Exposures to Respirable Crystalline Silica) requires a program that ensures that employees:

- Demonstrate knowledge concerning the health hazards of respirable crystalline silica.
- Understand the specific engineering controls, work practices, and respirators to be used in such cases where appropriate.

Recommendation

That the SAWPA Commission approve the addition of the Silica Exposure Control Program to SAWPA's Injury and Illness Prevention Plan (IIPP).

Questions?

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INLAND EMPIRE BRINE LINE MASTER PLAN PA 24 Committee Meeting

PA 24 Committee Meeting Item No. 5.A David Ruhl Executive Manager of Engineering and Operations December 5, 2023



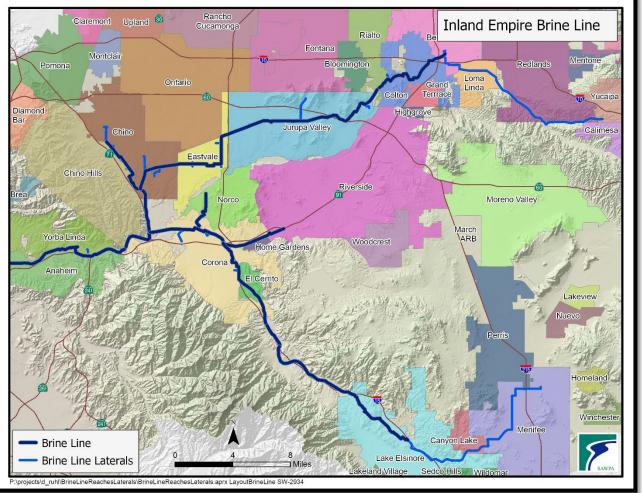


Recommendation

Receive and file a status report on the Inland Empire Brine Line Master Plan

Brine Line Master Plan

- Long-term planning document that addresses facility needs
- Manage and implement the growth and expansion of the Brine Line to best serve the watershed, our Member Agencies and current and future dischargers
- Benefits
 - Ability to make informed decisions
 - Focus resources and prioritize projects
 - Promote economic development
 - Maintain system reliability
 - Accommodate future growth
 - Meet future regulatory requirements



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Brine Line Master Plan - Scope of Work



Update and calibrate the existing hydraulic Model



Market analysis, Member Agency and Stakeholder coordination, and future growth projections



Existing and Future Brine Line System Evaluation



Capacity management and long-term planning efforts

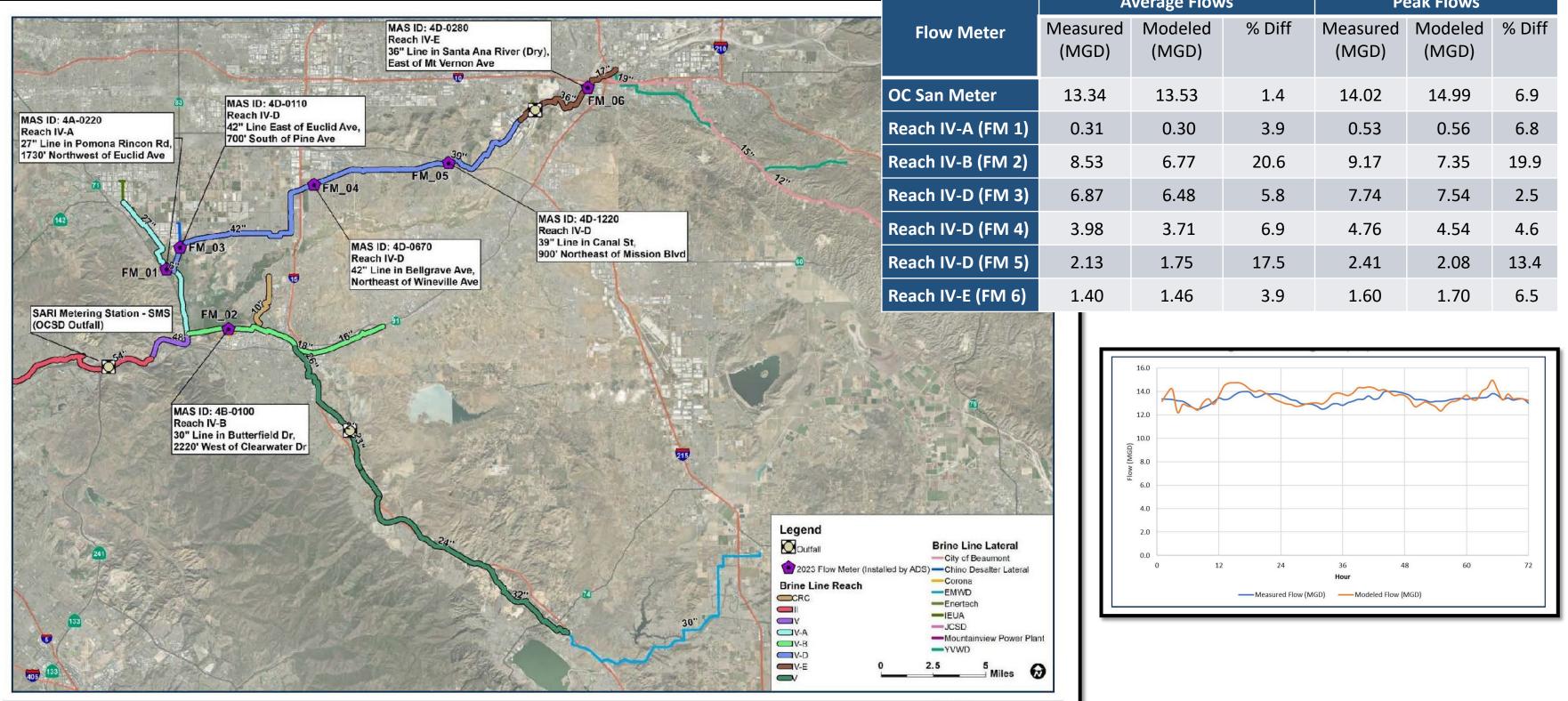


Multi-use benefits for the future



Policy considerations

Update and Calibrate the Existing Hydraulic Model



	Α	verage Flow	Peak Flows			
ter	Measured (MGD)	Modeled (MGD)	% Diff	Measured (MGD)	Modeled (MGD)	% Diff
er	13.34	13.53	1.4	14.02	14.99	6.9
FM 1)	0.31	0.30	3.9	0.53	0.56	6.8
FM 2)	8.53	6.77	20.6	9.17	7.35	19.9
FM 3)	6.87	6.48	5.8	7.74	7.54	2.5
FM 4)	3.98	3.71	6.9	4.76	4.54	4.6
FM 5)	2.13	1.75	17.5	2.41	2.08	13.4
FM 6)	1.40	1.46	3.9	1.60	1.70	6.5

Member Agency / Stakeholder Meetings

Date	Agency
February 23, 2023	San Bernardino Valley Municipal Water Dist
February 23, 2023	San Bernardino Municipal Water Departmen
February 23, 2023	City of Redlands
February 23, 2023	East Valley Water District
March 8, 2023	Eastern Municipal Water District
March 16, 2023	Western Municipal Water District
March 30, 2023	Inland Empire Utilities Agency
March 19, 2023	Chino Basin Desalter Authority
May 4, 2023	City of Corona
June 12, 2023	Elsinore Valley Municipal Water District
June 15, 2023	Jurupa Community Services District
June 15, 2023	Yucaipa Valley Water District
June 21, 2023	City of Colton
June 22, 2023	Riverside County Flood Control District
July 13, 2023	City of Beaumont
August 16, 2023	City of Chino
August 17, 2023	Temescal Valley Water District
August 17, 2023	City of Riverside
August 24, 2023	Rubidoux Community Services District







Industries that disposal of salty wastewater:

- Biotech Manufacturing
- Electronic Parts Manufacturers
- Medical Supply Manufacturing
- Computer Chip Manufacturers
- Commercial Laundries
- Food and Beverage Processing
- Groundwater desalters
- Ion Exchange Plants
- Power Plants
- Water Reclamation Facilities

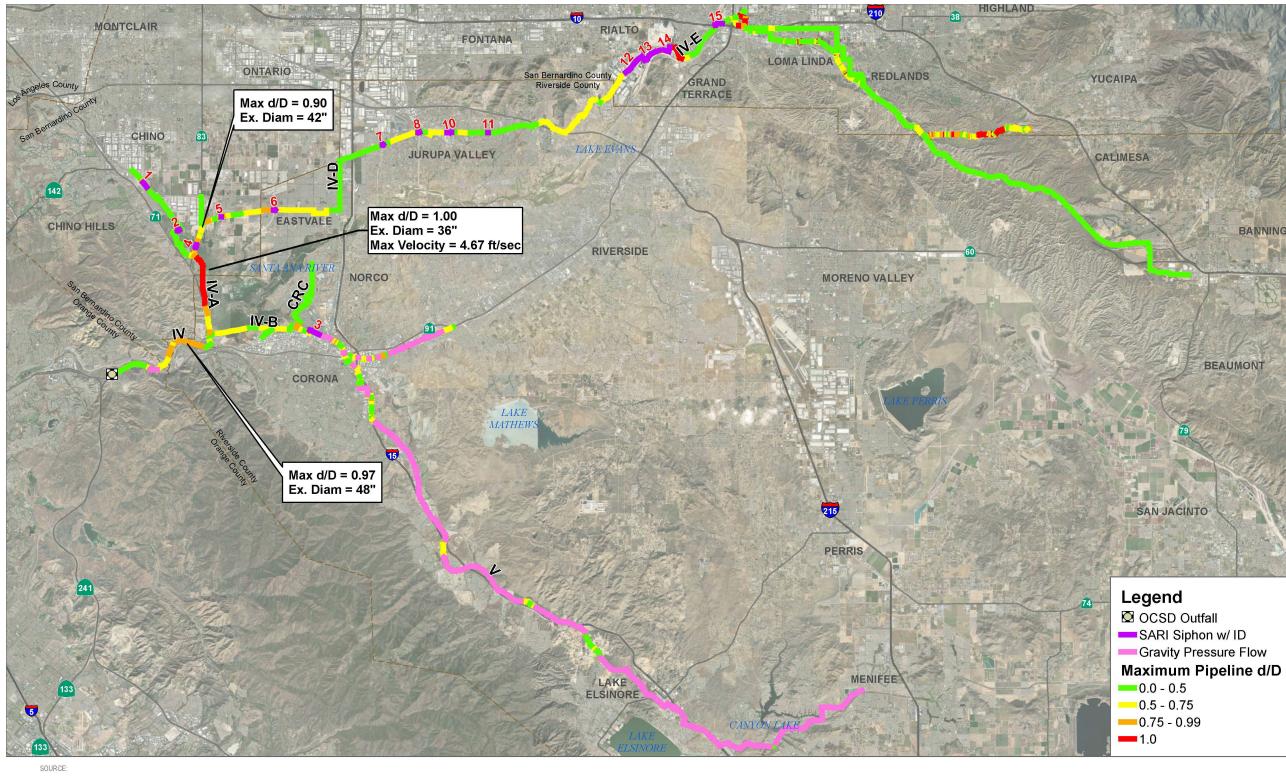
Market Analysis - Key information / concerns

- Near term Treatment and Disposal Capacity needs
 - YVWD 0.5 MGD
 - EVMWD 0.8 MGD
- Current projects and studies Brine Line disposal needs not defined ٠
 - Regional Recycled Water Facilities Plan Valley District, East Valley, City of San Bernardino and City of Redlands - Feasibility study late 2024
 - Chino Basin Program •
 - Southern Riverside County Regional Brine Line
- Factors influencing Agency Brine Disposal Needs ٠
 - Recycled Water / Ground Water Recharge Projects
 - Potential PFAS regulations
 - Brine Line Capacity
- DWF diversions to the Brine Line
- Is an intertie with IEUA's north system a feasible option for greater reliability and redundancy?

Future Growth Projections

Flow Type	Curren June 202		Near – Te 2023 - 3		Long – To 2033 -		Build – Ou [.] ≻ 2058	t
Potable Water Production	10.1	74%	11.6	62%	16.9	63%	18.3	60%
Wastewater Desalination	1.0	7%	4.5	24%	5.9	22%	6.3	21%
Industrial	1.7	12%	1.9	10%	2.3	9%	2.9	9%
Power Generation	0.5	4%	0.6	3%	.6	2%	0.7	2%
Stormwater	0.0	0%	0.0	0%	1.0	4%	2.0	7%
Domestic	0.3	2%	0.3	2%	0.3	1%	0.4	1%
Total	13.5 MGD		18.8 MGD		27.0 MGD		30.5 MGD	

Existing and Future System Evaluation



DUDEK 2 ____4 _____ Miles Inland Empire Brine Line Maximum Pipeline d/D - Ultimate Ownership Discharge Scenario

SAWPA Inland Empire Brine Line Master Plan

Hydraulic Model ullet

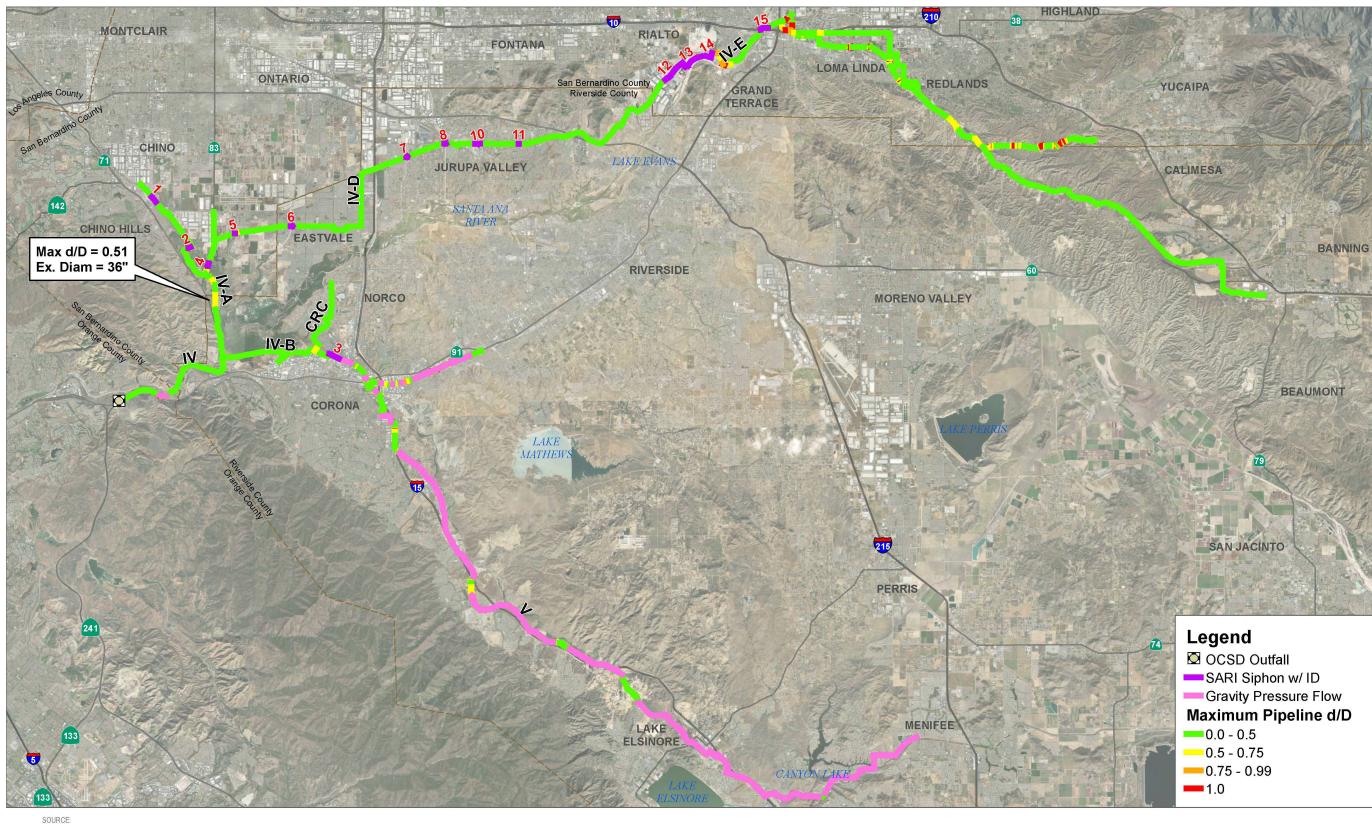
- Current
- Near Term
- Long Term
- Build Out
- Ownership

Agency	Pipeline Capacity (MGD)
SAWPA	0
CDA	3.670
EMWD	5.946
IEUA	4.130
VALLEY	7.738
Western	11.084
Total	32.568

• System Evaluation

- Critical Infrastructure
- System enhancements

Existing and Future System Evaluation – June 2023



DUDEK

2 4 _____ Miles

Inland Empire Brine Line Maximum Pipeline d/D - Existing (June 2023) Discharge Scenario SAWPA Inland Empire Brine Line Master Plan

Brine Line Master Plan

- Manage capacity (30 MGD System)
 - Storage
 - Brine concentration facilities
 - Other treatment opportunities
 - BOD/TSS
 - PFAS
- Multi use benefits
 - In-line hydroelectric system as source of renewable energy
- Policy considerations
 - Lateral ownership
 - Capacity buy-back
 - How to pay for laterals, projects and system expansion



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Next Steps and Schedule

- Master Plan update to PA 24
- Policy Considerations (review with GMs)
- Draft Report
- Review with Member Agencies and Stakeholders
- PA 24 Workshop
- Incorporate comments
- Final Report PA 24

December 5, 2023 January 2024 February 2024 February 2024 March 5, 2024 March 2024 April 2, 2024 Questions?