



Technical Advisory Committee Meeting

November 10, 2020 • 1:30 p.m.

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Or Join by Telephone: (669) 900-6833 Meeting ID: 874 5710 8844 Passcode: 567390

TECHNICAL ADVISORY COMMITTEE
CHINO BASIN DESALTER AUTHORITY
3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

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CALL TO ORDER

ROLL CALL

PUBLIC COMMENT

Members of the public may address the Committee on any item that is within the jurisdiction of the Committee; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Committee on any matter, whether or not it appears on the agenda, are requested to submit their request to comment to the Executive Assistant no less than one hour prior to the start of the meeting at (909) 218-3230 or ccosta@chinodesalter.org. Comments will be limited to five minutes per speaker.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.

- 1. MINUTES OF OCTOBER 27, 2020 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Ian Tillery/Inland Empire Utilities Agency
- 3. CHINO II OPERATIONS REPORT**
Report By: Aaron Anderson/Jurupa Community Services District
- 4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL UPDATE**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. WATER DELIVERIES**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 6. SOUTH ARCHIBALD PLUME UPDATE**
Report By: Cindy Miller, South Archibald Plume Program Manager
- 7. CHINO I GAC UPDATE**
Report By: Cindy Miller, Hazen & Sawyer Program Manager
- 8. BOARD MEETING AGENDA ITEMS REVIEW**
Report By: Thomas O'Neill, CDA General Manager/CEO

9. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW

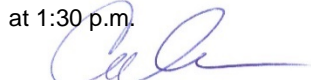
Report By: Thomas O'Neill, CDA General Manager/CEO

ADJOURN

Any person with a disability who requires accommodations in order to participate in this meeting or for package materials in an alternative format should telephone Executive Assistant C. at (909) 218-3730, at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation. Copies of records provided to Board Members which relate to any agenda item to be discussed in open session may be obtained from Chino Basin Desalter Authority at 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

Declaration of Posting

I, Casey Costa, Executive Assistant to the Chino Basin Desalter Authority, hereby certify that a copy of this agenda has been posted at the Chino Basin Desalter Authority's main office, 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761 by November 6, 2020 at 1:30 p.m.



Casey Costa, Executive Assistant



Technical Advisory Committee Meeting

Agenda Item

No. 1

**CHINO BASIN DESALTER AUTHORITY
TECHNICAL ADVISORY COMMITTEE**

MINUTES

OCTOBER 27, 2020

A meeting of the Chino Basin Desalter Authority Technical Advisory Committee was held via audio/teleconference. CDA General Manager O'Neill called the meeting to order at 1:30 p.m.

Committee Members Present:

Dave Crosley, City of Chino
Chris Bonadurer, City of Ontario
Ian Tillery, Inland Empire Utilities Agency
Ben Armel, Jurupa Community Services District
Aaron Anderson, Jurupa Community Services District (Alternate)
Todd Minten, Santa Ana River Water Company
John Lopez, Santa Ana River Water Company (Alternate)
Derek Kawaii, Western Municipal Water District
Paul Ruge, Western Municipal Water District

Others Present:

Thomas O'Neill, CDA General Manager/CEO
Casey Costa, CDA Executive Assistant
Michael Chung, CDA CFO/Treasurer
Jose Garcia, CDA Principal Accountant
Pete Vicario, City of Chino
Courtney Jones, City of Ontario
Daniel Cardenas, Jurupa Community Services District
Cindy Miller, Hazen & Sawyer
Bob Bowcock, Integrated Resources Management/SB County Airports

PUBLIC COMMENT - There were no public comments.

ADDITIONS TO THE AGENDA – There were no additions to the agenda.

AGENDA ITEMS

1. MINUTES OF OCTOBER 13, 2020 TECHNICAL ADVISORY COMMITTEE MEETING

Approved as submitted.

2. CHINO I OPERATIONS REPORT

Report By: Ian Tillery/Inland Empire Utilities Agency

- Plant Production: 11.96 MGD
- 10/7 – checks valves on I-1 and I-2 replaced
- CL2 pumps failed, plant was off for 3 hours on 10/8 – did not violate CT and no disinfection issues.

- Train 4 membranes were changed out
- SAWPA quarterly inspections performed on 10/21
- 10/22 – RO Train 2 failed. Troubleshooting is being performed.

3. CHINO II OPERATIONS REPORT

Report By: Aaron Anderson/Jurupa Community Services District

- Plant Production – 23.4 MGD
- General Pump reinstalled 1110 Product Water Pump 3
- Emerson performed programming download for Rotork Actuating Valves at CRF

4. CHINO II CONCENTRATE REDUCTION FACILITY OPERATIONAL UPDATE

Report By: Thomas O'Neill, CDA General Manager/CEO

Aaron Anderson/JCSD reported that pellet reactor basket nozzles are being replaced. Plant continues to run with three pellet reactors and two clarifiers.

5. SOUTH ARCHIBALD PLUME PROJECT: CONSTRUCTION CONTRACT AWARD FOR DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING OF MONITORING WELLS MW-II-4 and MW-II-5

Report By: Cindy Miller, South Archibald Plume Program Manager

General Manager O'Neill reviewed the recommendation to award the construction, drilling and development of Monitoring Wells II-4 and II-5 to Yellow Jacket Drilling. ABC Liovin was the lowest bidder but deemed non-responsive for failing to submit the required DBE Form 4500-4 and for failing to list necessary subcontractor for geophysical logging. Derek Kawaii, Western Municipal Water District, asked if ABC Liovin has been notified; General Manager O'Neill replied that bids were opened yesterday, and ABC Liovin will be notified prior to Thursday's Finance Committee Meeting. Courtney Jones, City of Ontario inquired if contingency was included in the bid value; General Manager O'Neill replied that the bid was \$642,445 and the Board is being asked to authorize a 10% contingency for a total amount of \$710,000. There were no further questions and no objections to moving the item to the Finance Committee.

6. SOUTH ARCHIBALD PLUME PROJECT: PURCHASE AND SALE AGREEMENT WITH ARCHIBALD RANCH COMMUNITY CHURCH FOR EASEMENT FOR MONITORING WELL MWII-5

Report By: Thomas O'Neill, CDA General Manager/CEO

General Manager O'Neill reviewed the recommendation to approve the purchase of a permanent and a temporary easement from Archibald Ranch Community Church of the Nazarene in the amount of \$30,000 for the construction of Monitoring Well II-5. There were no questions or comments and no objections to moving the item to the Finance Committee.

7. SOUTH ARCHIBALD PLUME UPDATE

Report By: Thomas O'Neill, General Manager/CEO

Phase 1 Pipeline – completed

Phase 2 Pipeline – Under construction in Wineville. We have authorization to go to Cantu Galleano. Plan was submitted to City of Jurupa Valley for encroachment permit. Working on redesign of pipeline in Bellegrave between freeway and Wineville.

Phase 3 Pipeline – working on punch list items and expect to close out next week.

Well II-12 – Equipping contractor is on site.

Decarbonator Modifications – Working through submittal process, ordering parts, and scheduling shutdowns. On November 9th Chino II Desalter will be shut down for 24 hours.

8. CHINO I GAC UPDATE

Report By: Thomas O'Neill, General Manager/CEO

Met with Division of Drinking Water to review 97-005 information. Received authorization to move forward with the next phase of the program. Received 50% design submittal to CDA; comments were returned to Hazen & Sawyer.

9. BOARD MEETING AGENDA ITEMS REVIEW

Report By: Thomas O'Neill, CDA General Manager/CEO

General Manager O'Neill reviewed upcoming Board Items.

10. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW

Report By: Thomas O'Neill, CDA General Manager/CEO

General Manager O'Neill reviewed upcoming TAC Items.

There being no further business, the meeting was adjourned at 1:50 p.m.

Submitted by Casey Costa, CDA Executive Assistant



Technical Advisory Committee Meeting

Agenda Item

No. 2



**Chino I Desalter
Treatment Plant Operations**

Summary of Activities
October 26th to November 5th, 2020

Well Field

Well Name	VFD Speed	Original Design Rate (gpm)	Current Production Rate (gpm)	Percent of Production	Operational (Yes/No)	Production Rate (gpm)	Status (Idle/Run)	Current Operation (gpm)
****I-1	0%	600	0	0%	No	0	Idle	0
****I-2	0%	300	0	0%	No	0	Idle	0
****I-3	0%	600	0	0%	No	0	Idle	0
I-4	0%	300	0	0%	Yes	0	Idle	0
I-5	86%	1,200	907	9%	Yes	907	Run	907
I-6	100%	350	335	3%	Yes	335	Run	335
*I-7	79%	1,200	207	2%	Yes	207	Run	207
I-8	94%	900	736	8%	Yes	736	Run	736
I-9	98%	1,200	1,173	12%	Yes	1,173	Run	1,173
I-10	97%	1,200	1,202	12%	Yes	1,202	Run	1,202
I-11	0%	1,200	0	0%	No	0	Idle	0
**I-13	75%	2,000	699	7%	Yes	699	Run	699
I-14	85%	2,200	1,837	19%	Yes	1,837	Run	1,837
****I-15	87%	2,000	1,851	19%	Yes	1,851	Run	1,851
I-16	100%	250	180	2%	Yes	180	Run	180
I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	386	4%	Yes	386	Run	386
I-21	100%	400	220	2%	Yes	220	Run	220
gpm	Total	16,500	9,733	100%	100%	9,733	100%	9,733
MGD		23.76	14.02			14.02		14.02

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,267	1.82
2	79.0%	1,267	1.82
3	79.0%	0	0.00
4	79.0%	1,267	1.82
5	79.0%	1,267	1.82
		5,068	7.30

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	468	0.67
2	468	0.67
3	468	0.67
4	468	0.67
	1,872	2.70

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,375	1.98

Summary of Activities

- 10/26 RO Train 2 shutdown
- 10/27 new Cl2 pump installed
- 11/3 Well I-11 reinstalled
- 11/5 End User #2 installed and #7 pulled

Plant Efficiency

Flow in Vs. Flow Out	(gpm)	(MGD)
Wells	9,733	14.02
Brine	-1375	-1.98
	8,358	12.04

Plant Production

All Treatment Trains	(gpm)	(MGD)
Primary RO	5,068	7.30
Ion Exchange	1,872	2.70
Raw Bypass	0	0.00
	6,940	9.99

* Air Problem
** Sand Problem
***Cooling Problem
****Out of Service



Technical Advisory Committee Meeting

Agenda Item

No. 3



Well Field

Well Name	VFD Speed	Original Design Rate (gpm)	Current Production Rate (gpm)	Percent of Production	Operational (Yes/No)	Production Rate (gpm)	Status (Idle/Run)	Current Operation (gpm)
II-1	100%	2,000	1,396	8%	Yes	1,396	Run	1,350
II-2	Fixed	2,000	1,435	8%	Yes	1,435	Run	1,400
II-3	Fixed	2,000	1,500	9%	Yes	1,500	Run	1,460
II-4	100%	2,000	1,576	9%	Yes	1,576	Run	1,550
II-6	100%	2,000	1,460	9%	Yes	1,460	Run	1,430
II-7	100%	1,200	829	5%	Yes	829	Run	865
II-8	Fixed	1,500	1,045	6%	Yes	1,045	Run	920
II-9	Fixed	2,000	1,575	9%	Yes	1,575	Run	1,540
II-10	100%	3,700	3,260	19%	Yes	3,260	Run	3,035
II-11	100%	3,300	3,001	18%	Yes	3,001	Run	3,150
II-12								
gpm	Total	21,700	17,077	100%	100%	17,077	98%	16,700
MGD		31.25	24.59			24.59		24.05

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	83.5%	1,390	2.00
2	83.5%	1,390	2.00
3	83.5%	1,390	2.00
4	83.5%	2,200	3.17
5	83.5%	2,200	3.17
		8,570	12.34

Ion Exchange Treatment

NRV			NRV		
	(gpm)	(MGD)		(gpm)	(MGD)
1	890	1.28	5	1,000	1.44
2	920	1.32	6	0	0.00
3	0	0.00	7	0	0.00
4	920	1.32	8	1,030	1.48
				4,500	6.48

Raw Bypass

Production	
(gpm)	(MGD)
2,100	3.02

Brine Flow

Production	
(gpm)	(MGD)
720	1.04

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	0	0.00
2	70.0%	500	0.72
3	70.0%	500	0.72
		1,000	1.44

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	16,700	24.05
Brine	-720	-1.04
	15,980	23.01
	95.7%	

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,570	12.34
Ion Exchange	4,500	6.48
Raw Bypass	2,100	3.02
Secondary RO	1,000	1.44
	16,170	23.3

Summary of Activities

- Daily Plant Rounds/Weekly Samples
- Weekly Calibrations
- P&L/Gwinco onsite for Air Stripper Project
- Replaced UPS at Chemscan Unit
- CRF Quarterly Maintenance on Cake Hopper Slide Gates
- Inspected Waste Wash Basin to Assess Cleaning Schedule
- ChemScan issues. IEUA staff assisted JCSD staff with problems.
- Received Purchased Dewatering Bin for CRF
- Replaced caustic pump to pellet reactors
- 24 hr Shutdown for P&L to move concentrate air gap structure



Technical Advisory Committee Meeting

Agenda Item

No. 5

FY 2020/21 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-20	427.132	356.844	991.292	87.597	736.790	102.381	301.153	3,003.189
Aug-20	433.651	363.384	973.886	89.228	741.172	102.461	301.748	3,005.530
Sep-20	419.417	350.156	1,121.142	85.116	700.120	105.401	310.405	3,091.757
Oct-20	449.064	394.388	1,120.235	94.402	767.780	111.306	327.796	3,264.971
Nov-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec-20	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jan-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-21	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total FY 20/21 Deliveries	1,729.264	1,464.772	4,206.555	356.343	2,945.862	421.549	1,241.102	12,365.447
Contract Entitlement								
Annual (AF/YR)	5,000.0	4,200.0	11,733.0	1,000.0	8,533.0	1,200.0	3,534.0	35,200
Monthly (AF)	416.7	350.0	977.8	83.3	711.1	100.0	294.5	2,933.3
Delivered through October 2020 (AF)	1,729.3	1,464.8	4,206.6	356.3	2,945.9	421.5	1,241.1	12,365.4
	103.8%	104.6%	107.6%	106.9%	103.6%	105.4%	105.4%	105.4%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Oct-20



Technical Advisory Committee Meeting

Agenda Item

No. 8

Chino Basin Desalter Authority
Board Meeting Agenda Items

December 3, 2020 Board Meeting (Special)		TAC	Finance
NO MEETING			

January 7, 2021 Board Meeting (Regular)		TAC	Finance
Quarterly Financial Reports	Garcia/CDA		
Appointment of Officers of the Board of Directors	O'Neill/CDA		
Board Committee Appointments (Finance Committee)	O'Neill/CDA		
Quarterly Operations Report/Presentation	O'Neill/CDA		
Quarterly South Archibald Plume Report/Presentation	Miller/H&S		

FUTURE	TAC	Finance	Board
O&M Agreement			
Records Retention Policy			
Appoint CDA Representative for ACWA/JPIA Board of Directors			
CDA Employee Cost of Living Adjustment and Health Insurance Allowance	1/12/2021	1/22/2021	2/5/2021



Technical Advisory Committee Meeting

Agenda Item

No. 9

Chino Basin Desalter Authority

TAC Meeting Agenda Items

November 24, 2020
NO MEETING

December 10, 2020
NO MEETING

FUTURE
O&M Agreement Update
Records Retention Policy
CDA Employee COLA and Health Insurance Allowance