



Technical Advisory Committee Meeting

July 12, 2022 • 1:30 p.m.

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**TECHNICAL ADVISORY COMMITTEE
CHINO BASIN DESALTER AUTHORITY**

3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761

July 12, 2022 • 1:30 p.m.

According to the directives from the California Department of Public Health and Executive Order N-08-21 issued by Governor Gavin Newsom, members of the public are invited to participate via video or teleconference:

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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.

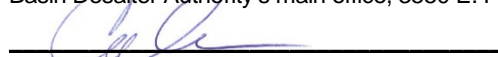
- 1. MINUTES OF JUNE 28, 2022 TECHNICAL ADVISORY COMMITTEE MEETING**
- 2. CHINO I OPERATIONS REPORT**
Report By: Chris Waggener/Inland Empire Utilities Agency
- 3. CHINO II / CRF OPERATIONS REPORT**
Report By: Daniel Cardenas/Jurupa Community Services District
- 4. WATER DELIVERIES**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 5. CHINO I GAC UPDATE**
Report By: Cindy Miller, Hazen & Sawyer Program Manager
- 6. BOARD MEETING AGENDA ITEMS REVIEW**
Report By: Thomas O'Neill, CDA General Manager/CEO
- 7. 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 Chino Basin Desalter Authority's main office, 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761 by July 8, 2022 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

June 28, 2022 • 1:30 p.m.

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:

Chris Waggener, Inland Empire Utilities Agency
Mark Wiley, City of Chino Hills
Chris Bonadurer, City of Ontario
John Lopez, Santa Ana River Water Company
Derek Kawaii, Western Municipal Water District

Others Present:

Thomas O'Neill, CDA General Manager/CEO
Casey Costa, CDA Executive Assistant
Jose Garcia, CDA Principal Accountant
Michael Chung, CDA CFO/Treasurer
Pete Vicario, City of Chino
Matt Abel, Jurupa Community Services District
Daniel Cardenas, Jurupa Community Services District
Albert Magallon, Western Municipal Water District
Cindy Miller, Hazen and Sawyer
Alex Rahimian-Pour, Hazen and Sawyer

PUBLIC COMMENT - There were no public comments.

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

AGENDA ITEMS

1.	MINUTES OF MAY 24, 2022 TECHNICAL ADVISORY COMMITTEE MEETING Minutes were approved as submitted.
2.	CHINO I OPERATIONS REPORT Report By: Chris Waggener/Inland Empire Utilities Agency <ul style="list-style-type: none">• Plant Production Average 9.87 MGD• 5/24- Burst plate flange on CL2 generator repaired due to crack. Water softener strong brine flow meter replaced.• 5/25- Contractor struck CI's raw water main while boring across Euclid/Kimball. Plant and wells were shut down, raw main line isolated. Excavation and repair completed 5/28, main kept empty to allow epoxy coating to cure.• 5/27-End user meter isolation valves exposed to verify size and class for replacement.

	<ul style="list-style-type: none"> • 5/31-Raw water main pressurized and flushed out to plant EQ basin. The plants pressure relief valve diaphragm tore due to amount of debris in pipeline. Diaphragm was replaced and the plant was placed back online and deliveries resumed at 13:10. • 6/4-Power blip shut down plant from 05:47 to 06:06. • 6/5- Acid Pump #1 signal isolator replaced. Contractor struck RO inlet Blow-off while trenching. Blow off isolated and capped until replacement blow-off arrives. • 6/9- New chlorine tank #2 level sensor installed (Radar), • 6/10- Power outage at plant shut down deliveries from 01:22-02:22. Well I-16 not producing water after outage, Contractor will schedule inspection • 6/11- Decarbonator 1 motor failed, tested and motor is going to ground. • 6/13- Decarbonator 1 motor replaced and new wire pulled. • 6/15- RO cartridge filters changed out in vessels 1,2,3. • 6/16- End User Booster #6 installed, tested, put in service. RO cartridge filters changed out in vessels 4&5 • 6/22- IX inlet bag filters changed out.
<p>3.</p>	<p>CHINO II / CRF OPERATIONS REPORT Report By: Daniel Cardenas/Jurupa Community Services District</p> <p><u>Chino II</u></p> <ul style="list-style-type: none"> • Plant Production Average 22.2 MGD • 5/18/22 Chino II rebuilt Sulfuric Acid System Pressure Reliefs • 5/31/22 - 6/16/22 Chino II coordinated with TE Roberts to Replace IX Sewer into SAWPA • 6/21/22 Chino II worked with J & K Welding on Brine Feed Line repairs for IX <p><u>CRF</u></p> <ul style="list-style-type: none"> • 5/20/22 Performed troubleshooting and adjusted Concentrate Valve on SRO # 3 • 5/23/22 Worked with J&K Welding to repair auger system for Centrifuge # 3 • 6/13/22 - 6/15/22 CRF Cleaned all pellet reactor underdrains to reduce influent plant pressures
<p>4.</p>	<p>WATER DELIVERIES Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reported water deliveries at 102.7% of entitlements as of the end of May 2022. It is projected to hit over 100% for Fiscal Year 2021/22.</p>
<p>5.</p>	<p>CHINO II DESALTER PELLET SLURRY PUMPS AND ASSOCIATED PIPING PROJECT DESIGN SERVICES Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve a Professional Services Agreement with Carollo Engineers for design of the Pellet Slurry Pumps and Associated Piping Project in the not-to-exceed amount of \$122,553 and authorize expenditures up to a not-to-exceed total of \$135,000. This item is a CIP project for Fiscal Year 2022/23</p>

	<p>He reviewed that Carollo Engineers is the Engineer-of-Record for the CRF and that JCSD operations and CDA staff have been working with Carollo to improve performance at the CRF. Addition of pellet blowdown pumps will allow the operators to better control solids management within the reactors, leading to better process stability and performance. Currently, only one of four reactors can execute a pellet removal cycle at a time. The pellet blowdown system will allow the operators to remove pellets from two reactors simultaneously, speeding up the process considerably and developing a more consistent pellet size to assist with pellet marketing. The Professional Services Agreement with Carollo is a sole source award, in accordance with the adopted Purchasing Policy. There were no questions or comments and no objections to moving the item forward to the Finance Committee.</p>
<p>6.</p>	<p>CONTRACT WITH EVOQUA WATER TECHNOLOGIES FOR SUPPLY AND DELIVERY OF GRANULAR ACTIVATED CARBON (GAC) Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve a contract with Evoqua Water Technologies for supply and delivery of Granular Activated Carbon (GAC) in the not-to-exceed amount of \$360,000 for VOC Treatment Facility at the Chino I Desalter currently being constructed. A competitive request for proposals (RFP) for the supply and delivery of GAC was advertised via PlanetBids from March 17 to April 18, 2022. Notifications were sent to 71 vendors; 4 potential bidders registered to download bid documents and product specifications, and proposals were received from one vendor, Evoqua Water Technologies at a rate of \$61.35 per cubic foot. The initial contract term will be two years. Price will be held firm for one (1) year and then will be subjected to a 6% escalation for year 2. CDA will have the option to extend the contract for (3) additional one-year terms. There were no questions or comments and no objections to moving the item forward to the Finance Committee.</p>
<p>7.</p>	<p>CHINO I GAC UPDATE Report By: Alex Rahimian-Pour, Hazen and Sawyer</p> <ul style="list-style-type: none"> • Most of major equipment has been delivered and installed and the anticipated completion date is in September 2022. 158 submittals and 52 RFI’s have been received and all have been responded to. • Final report for 97-005 permitting was submitted to DDW and their comments are expected shortly.
<p>8.</p>	<p>DISCUSSION OF EASTVALE MONUMENT AT II-1 WELLSITE Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the request by City of Eastvale to obtain an easement for a portion of wellsite II-1 to install a monument. In exchange for the easement, it is being proposed that the city landscape and maintain the landscape for the wellsite. CDA would provide groundwater to maintain landscaping and power to run two lights. Derek Kawaii questioned with the City of Eastvale would be responsible for graffiti removal for the monument and wellsite. General Manager O’Neill responded that Jurupa Community</p>

	Services District has a graffiti abatement program that manages graffiti removal for the city. There were no further questions or comments.
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 1:56 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

June 23rd, 2022 to July 3rd, 2022

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%	No	0	Idle	0
I-5	92%	1,200	1,013	11%	Yes	1,013	Run	1,013
I-6	94%	350	333	4%	Yes	333	Run	333
*I-7	29%	1,200	85	1%	Yes	85	Run	85
I-8	27%	900	296	3%	Yes	296	Run	296
I-9	90%	1,200	873	9%	Yes	873	Run	873
I-10	92%	1,200	1,025	11%	Yes	1,025	Run	1,025
I-11	0%	1,200	62	1%	Yes	62	Run	62
*I-13	77%	2,000	917	10%	Yes	917	Run	917
I-14	85%	2,200	1,941	21%	Yes	1,941	Run	1,941
I-15	85%	2,000	2,056	22%	Yes	2,056	Run	2,056
I-16	36%	250	52	1%	Yes	52	Run	52
****I-17	0%	200	0	0%	No	0	Idle	0
I-20	100%	400	371	4%	Yes	371	Run	371
I-21	100%	400	226	2%	Yes	226	Run	226
gpm	Total	16,500	9,249	100%	100%	9,249	100%	9,249
MGD		23.76	13.32			13.32		13.32

Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,119	1.61
2	79.0%	1,119	1.61
3	79.0%	1,119	1.61
4	79.0%	1,119	1.61
5	79.0%	1,119	1.61
		5,595	8.06

Ion Exchange Treatment

Train	(gpm)	(MGD)
1	490	0.71
2	490	0.71
3	490	0.71
4	490	0.71
	1,960	2.82

VOC Bypass

Production (gpm)	(MGD)
0	0.00

Brine Flow

Production (gpm)	(MGD)
1,472	2.12

Summary of Activities

6/27- High pH CIP of RO Train #1 first stage started, contractor at well I-16 making repairs to well pump.

6/28- High pH CIP of RO Train #1 second stage started, contractor at well I-16 finished repairs. Well I-16 running to waste and Bacti sample collected.

6/29- Chino I's RO system Dashboard training held at Chino I. System is live and running. Low pH CIP of RO Train #1 first stage began. Well I-16 placed back in service

6/30- RO Train #1 placed online and RO Train #4 first stage high pH CIP started.

7/1- RO Train #4 placed back online and RO Train #5 first stage high pH CIP started.

7/2- RO Train #5 placed back in service, RO Train #2 first stage high pH CIP started.

7/3- RO Train #2 placed back in service, RO Train #3 first stage high pH CIP started.

Plant Efficiency

	Flow in (gpm)	Flow Out (MGD)
Wells	9,249	13.32
Brine	-1472	-2.12
	7,777	11.20

Plant Production

	All Treatment Trains (gpm)	(MGD)
Primary RO	5,595	8.06
Ion Exchange	1,960	2.82
Raw Bystage	0	0.00
	7,555	10.88

* Air Problem

** Sand Problem

***Cooling Problem

****Out of Service



Technical Advisory Committee Meeting

Agenda Item

No. 3



Chino II Desalter Treatment Plant Operations

Summary of Activities
June 22 ,2022 - July 5, 2022

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	1,547	8%	Yes	1,500	Run	1,527
II-2	Fixed	2,000	1,522	8%	Yes	1,750	Run	1,487
II-3	Fixed	2,000	1,801	10%	Yes	2,000	Run	1,827
II-4	100%	2,000	1,576	8%	No	1,700	Idle	0
II-6	100%	2,000	1,372	7%	Yes	1,500	Run	1,363
II-7	100%	1,200	791	4%	Yes	1,000	Run	789
II-8	Fixed	1,500	1,045	6%	No	1,200	Idle	0
II-9	Fixed	2,000	1,562	8%	Yes	1,750	Run	1,517
II-10	97%	3,700	2,822	15%	Yes	3,200	Run	2,732
II-11	97%	3,300	2,833	15%	Yes	3,200	Run	2,793
II-12	85%	2,000	1,883	10%	Yes	1,600	Run	1,870
gpm	Total	23,700	18,754	100%	109%	20,400	85%	15,905
MGD		34.13	27.01			29.38		22.90

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%	2,250	3.24
5	83.5%	2,250	3.24
		8,670	12.48

Ion Exchange Treatment

NRV			NRV		
	(gpm)	(MGD)		(gpm)	(MGD)
1	0	0.00	5	0	0.00
2	605	0.87	6	603	0.87
3	595	0.86	7	0	0.00
4	598	0.86	8	601	0.87
				3,002	4.32

Raw Bypass

Production (gpm)	(MGD)
2,845	4.10

Brine Flow

Production (gpm)	(MGD)
709	1.02

Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	480	0.69
2	70.0%	480	0.69
3	70.0%	0	0.00
		960	1.38

Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	15,905	22.90
Brine	-709	-1.02
	15,196	21.88
	95.5%	

Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,670	12.48
Ion Exchange	3,002	4.32
Raw Bypass	2,845	4.10
Secondary RO	960	1.38
	15,477	22.3

Summary of Activities

- * Daily Plant Rounds/Weekly Samples
- * Weekly Calibrations
- * 6/22/22 Chino II / CRF shut down short-term after a lightning storm created power failures
- * 6/23/22 Chino II Replaced gaskets on IX Air Blower feed lines.
- * 6/23/22 Chino II Replaced Permeate Flow Gauge for RO # 2 (Stage 1)
- * 6/30/22 Chino II Completed quarterly change out of Ion Exchange bag filters
- * 6/22/22 -7/5/22 Continued annual oil changes in well field
- * 6/22/22 CRF Repaired leaks on Pellet Reactor dilution water feed for caustic



Technical Advisory Committee Meeting

Agenda Item

No. 4

FY 2021/22 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-21	468.277	392.249	1,099.665	93.028	774.910	111.395	328.058	3,267.582
Aug-21	435.578	362.918	1,006.008	86.648	749.330	104.004	306.291	3,050.777
Sep-21	445.261	369.010	1,010.849	90.256	785.650	106.231	308.850	3,116.107
Oct-21	451.102	377.695	1,083.275	95.961	809.200	110.983	327.287	3,255.503
Nov-21	434.756	364.486	1,029.274	92.714	777.850	106.500	318.430	3,124.010
Dec-21	390.214	307.134	993.505	90.656	776.663	100.000	265.524	2,923.696
Jan-22	429.756	363.519	984.728	88.912	751.486	100.740	235.905	2,955.046
Feb-22	299.627	250.960	787.496	66.100	572.432	77.615	222.490	2,276.720
Mar-22	438.888	369.163	1,059.890	91.522	791.512	106.163	256.989	3,114.127
Apr-22	448.288	377.269	986.594	91.751	795.389	104.818	270.548	3,074.657
May-22	371.287	312.066	966.998	94.157	799.037	101.581	334.592	2,979.718
Jun-22	455.439	385.785	971.698	92.867	730.235	105.438	351.376	3,092.838
Total FY 21/22 Deliveries	5,068.473	4,232.254	11,979.980	1,074.572	9,113.694	1,235.468	3,526.340	36,230.781
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 June 2022 (AF)	5,068.5	4,232.3	11,980.0	1,074.6	9,113.7	1,235.5	3,526.3	36,230.8
	101.4%	100.8%	102.1%	107.5%	106.8%	103.0%	99.8%	102.9%

Notes:

1. Actual deliveries to date are shaded.

Water Deliveries Through

Jun-22

Submitted By:

Tom O'Neill, General Manager/CEO

Date

Approved By:

CDA Technical Advisory Committee

Approved On:



Technical Advisory Committee Meeting

Agenda Item

No. 6

Chino Basin Desalter Authority
Board Meeting Agenda Items

August 4, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-

September 1, 2022 Board Meeting (Special)		TAC	Finance
Resolution Proclaiming a Local Emergency Authorizing Remote Teleconference Meetings	O'Neill/CDA	-	-



Technical Advisory Committee Meeting

Agenda Item

No. 7

Chino Basin Desalter Authority

TAC Meeting Agenda Items

July 26, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Chino I GAC Update

August 9, 2022
Meeting Minutes
Chino I Operations Report
Chino II / CRF Operations Report
Water Deliveries
Chino I GAC Update