



# Technical Advisory Committee Meeting

May 9, 2023 • 1:30 p.m.

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

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**TECHNICAL ADVISORY COMMITTEE  
CHINO BASIN DESALTER AUTHORITY**

**May 9, 2023 at 1:30 p.m.**

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

OTHER TELECONFERENCE LOCATIONS LISTED BELOW

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

**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 prior to the start of the meeting at (909) 218-3730 or [ccosta@chinodesalter.org](mailto:ccosta@chinodesalter.org). Comments will be limited to three minutes per speaker.4*

**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 APRIL 11, 2023 TECHNICAL ADVISORY COMMITTEE MEETING**

Report By: Casey Costa, CDA Executive Assistant

**2. CHINO I OPERATIONS REPORT**

Report By: Chris Waggener/Inland Empire Utilities Agency

**3. CHINO II / CRF OPERATIONS REPORT**

Report By: Matt Abel/Jurupa Community Services District

**4. WATER DELIVERY REPORT**

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

**5. CHINO I GAC UPDATE**

Report By: Hazen & Sawyer

**6. PFOS/PFOA UPDATE**

Report By: Hazen & Sawyer

**7. BOARD MEETING AGENDA ITEMS REVIEW**

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

**8. NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW**

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

**ADJOURN**

One or more committee members will participate from the meeting location(s) listed below:

15091 La Palma Avenue, Chino, CA 91710

Each teleconference location is accessible to the public and the public will be given the opportunity to address the committee at each teleconference location. Public comments will be taken on the agenda items at the time the specified item is raised.

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 Casey Costa 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 committee 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 each teleconference location listed above and at Chino Basin Desalter Authority's main office, 3550 E. Philadelphia Street, Suite 170, Ontario, CA 91761 by May 6, 2023 at 1:30 p.m.

  
Casey Costa, Executive Assistant



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 1**

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**CHINO BASIN DESALTER AUTHORITY  
TECHNICAL ADVISORY COMMITTEE**

**MINUTES**

**April 11, 2023 at 1:30 p.m.**

CDA General Manager Thomas O'Neill called to order a meeting of the Chino Basin Desalter Authority Technical Advisory Committee at 1:30 p.m.

**Committee Members Present:**

Dave Crosley, City of Chino  
Mark Wiley, City of Chino Hills  
Chris Bonadurer, City of Ontario  
Matt Abel, Jurupa Community Services District  
Chris Waggener, Inland Empire Utilities Agency  
Alyssa Coronado, 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  
Michael Chung, CDA CFO/Treasurer  
Pete Vicario, City of Chino  
Javier Arreguin, City of Chino Hills  
Kirols Nash, Jurupa Community Services District  
Alex Rahimian-Pour, Hazen and Sawyer  
Bob Bowcock, Integrated Resources Management  
Cindy Miller, Hazen & Sawyer  
Alex Rahimian-Pour, Hazen & Sawyer  
Nicole Blute, Hazen & Sawyer  
Becky Rosenfeldt, Hazen & Sawyer  
Aaron Anderson, Carollo Engineers

**PUBLIC COMMENT** - There were no public comments.

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

**AGENDA ITEMS**

<b>1.</b>	<b>MINUTES OF MARCH 28, 2023 TECHNICAL ADVISORY COMMITTEE MEETING</b> Minutes were approved as submitted.
<b>2.</b>	<b>CHINO I OPERATIONS REPORT</b> Report By: Chris Waggener/Inland Empire Utilities Agency <ul style="list-style-type: none"><li>• Plant Production 10.65 MGD</li><li>• 3/22- North GAC Acid tank filled for first time. North GAC Vessels loaded with GAC. High pH CIP on RO Train #5 started.</li></ul>

	<ul style="list-style-type: none"> <li>• 3/23- Low pH CIP started on RO Train #5. Chlorine generator acid cleaning started and completed. North GAC backwashing and bac't samples collected.</li> <li>• 3/24- Low pH CIP on RO train #5 completed, RO train #5 placed back online and End user flows restored to allocations.</li> <li>• 3/27- Cell booster and new antenna installed for backup alarm system RACO.</li> <li>• 3/28- Shelter erected over 12kV switchgear for plant shutdown and maintenance scheduled for 3/29-3/30</li> </ul>
<p><b>3.</b></p>	<p><b>CHINO II / CRF OPERATIONS REPORT</b>                  Report By: Matthew Abel/Jurupa Community Services District</p> <p><b><u>Chino II</u></b></p> <ul style="list-style-type: none"> <li>• Plant Production 20.3 MGD</li> <li>• 3/27- 3/28 - Adjusted Rotork actuators on NRV's 1-6</li> <li>• 3/30/23 - Inspected and re-installed bottom NRV-7 laterals</li> <li>• 4/4/23 - Increased RO train 5 production to ramp up CII</li> <li>• 4/5/23 - Scheduled plant shut down for SCADA download and plant maintenance</li> </ul> <p><b><u>CRF</u></b></p> <ul style="list-style-type: none"> <li>• 4/3/23 - Asset Reliability installed new caustic line to clarifier #1</li> <li>• 4/4/23 - Asset Reliability rebuilt sludge pump #2</li> <li>• 4/5/23 - CRF shut down for Chino II SCADA download and plant maintenance</li> </ul>
<p><b>4.</b></p>	<p><b>WATER DELIVERY REPORT</b>                  Report By: Thomas O’Neill, CDA General Manager/CEO                  General Manager O’Neill reported water deliveries through Marh 2023 totalling 25,886.6 acre-feet (AF), or 98.1% of entitlements.</p>
<p><b>5.</b></p>	<p><b>AMENDMENT NO 1 CHINO II DESALTER PELLET SLURRY PUMPS AND ASSOCIATED PIPING PROJECT DESIGN SERVICES CONTRACT</b>                  Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve Amendment No. 1 to the Professional Services Agreement with Carollo Engineers for design of the Pellet Slurry Pumps and Associated Piping Project in the not-to-exceed amount of \$58,555. He reviewed that the Board had approved a contract in the amount of \$122,553 with Carollo Engineers for the design of the Pellet Slurry Pumps and Associated Piping Project on July 7, 2022. Amendment 1 includes Engineering Construction Services with tasks such as submittal review, RFI responses, design clarifications, review of change orders, and inspection and preparing record drawings. After conducting a comprehensive assessment of operational data, conducting interviews with operations staff, and inspecting the plant, Carollo has concluded that the inclusion of pellet blowdown pumps will greatly enhance the operators' ability to manage solids within the reactors. The addition of pellet blowdown pumps to the Chino CRF will allow the operators to better control solids management within the reactors, leading to better process stability and performance.</p>

6.	<p><b>DRAFT CIP BUDGET 2023/24</b>  Report By: Thomas O’Neill, CDA General Manager/CEO  General Manager O’Neill reviewed the proposed Operations and Maintenance budget and CIP budget for Chino I and Chino II plants and General Projects.</p>
7.	<p><b>CHINO I GAC UPDATE</b>  Report By: Alex Rahimian-Pour, Hazen and Sawyer  The startup is planned for tomorrow and Thursday (April 12th - April 13th, 2023). We are currently in the process of coordinating with the contractor to arrange training for operations staff.</p>
8.	<p><b>LEAD AND COPPER RULE REVISIONS PRESENTATION</b>  Report by: Hazen &amp; Sawyer  Nicole Blute, Hazen &amp; Sawyer reviewed EPA’s lead and copper rules published in 2021 and their requirements for compliance with a deadline of October 16, 2024. Nicole introduced Becky Rosenfeldt, also from Hazen &amp; Sawyer, who provided an overview of the deliverables that need to be completed, including creation of an inventory of private-side connections for lead service lines (LSL), a plan for replacing galvanized and lead pipes, selection of sampling sites, and a list of schools and childcare facilities for sampling. A question was raised regarding the replacement of galvanized pipes, to which Becky clarified that this includes both currently and previously downstream galvanized lines connected to lead service lines.</p> <p>During the discussion, it was mentioned that some agencies had already conducted sampling of schools and childcare facilities in previous years. In response, it was noted that a final decision has not been reached yet, but there is some consideration being given to potentially grandfathering in those samples that were previously collected. She reported that the sites that will need to be identified are single family homes with LSL’s, other buildings with LSL’s, single family homes with galvanized services lines downstream of a current of former LSL, single-family homes with cooper and leaded solder with a new requirement to collect a fifth liter. The LSL replacement plan will need to identify locations with lead status unknown, procedures for conducting a full replacement, recommended goal rate, strategy for informing customers, flushing of lines, funding strategies and legal strategies. The presentation displayed during the meeting will be shared with all members of the Technical Advisory Committee (TAC).</p>
9.	<p><b>BOARD MEETING AGENDA ITEMS REVIEW</b>  Report By: Thomas O’Neill, CDA General Manager/CEO  General Manager O’Neill reviewed upcoming Board Items.</p>
10.	<p><b>NEW BUSINESS/FUTURE TECHNICAL ADVISORY AGENDA ITEMS REVIEW</b>  Report By: Thomas O’Neill, CDA General Manager/CEO  General Manager O’Neill reviewed upcoming TAC Items.</p>

There being no further business, the meeting was adjourned at 2:50 p.m.

Submitted by Casey Costa, CDA Executive Assistant



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 2**

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# Chino I Desalter

Summary of Activities

March 29th, 2023 to April 30th, 2023

Well Name	VFD Speed	Original Design (gpm)	Current Production (gpm)	Percent of Production	Operational	Production Rate (gpm)	Status (idle/Run)	Current Operation (gpm)
I-1	14%	600	75	1%	Yes	75	Run	75
I-2	6%	300	12	0%	Yes	12	Run	12
I-3	11%	600	42	0%	Yes	42	Run	42
**I-4	1%	300	9	0%	Yes	9	Run	9
I-5	92%	1,200	1,067	11%	Yes	1,067	Run	1,067
I-6	39%	350	151	2%	Yes	151	Run	151
*I-7	0%	1,200	10	0%	Yes	10	Run	10
I-8	92%	900	937	10%	Yes	937	Run	937
I-9	90%	1,200	1,047	11%	Yes	1,047	Run	1,047
I-10	91%	1,200	1,108	12%	Yes	1,108	Run	1,108
****I-11	0%	1,200	0	0%	No	0	Idle	0
*I-13	74%	2,000	875	9%	Yes	875	Run	875
I-14	95%	2,200	1,606	17%	Yes	1,606	Run	1,606
I-15	85%	2,000	1,838	19%	Yes	1,838	Run	1,838
I-16	92%	250	148	2%	Yes	148	Run	148
I-17	18%	200	31	0%	Yes	31	Run	31
I-18	18%	200	41	0%	Yes	41	Run	41
I-20	95%	400	387	4%	Yes	387	Run	387
I-21	94%	400	229	2%	Yes	229	Run	229
gpm	Total	16,700	9,613	100%	100%	9,613	100%	9,613
MGD		24.05	13.84			13.84		13.84

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

### Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,178	1.70
2	79.0%	1,178	1.70
3	79.0%	1,178	1.70
4	79.0%	1,178	1.70
5	79.0%	1,178	1.70
		5,890	8.48

### Ion Exchange Treatment

Train	(gpm)	(MGD)
1	393	0.57
2	393	0.57
3	393	0.57
4	393	0.57
	1,572	2.26

### North GAC

Production (gpm)	(MGD)
294	0.42

### Brine Flow

Production (gpm)	(MGD)
1,611	2.32

### Plant Efficiency

	Flow in (gpm)	Flow Out (MGD)
Wells	9,613	13.84
Brine	-1611	-2.32
	8,002	11.52

### Plant Production

	Flow in (gpm)	Flow Out (MGD)
Primary RO	5,890	8.48
Ion Exchange	1,572	2.26
N-GAC	294	0.42
	7,756	11.17

### Summary of Activities

- 3/29- Plant Shutdown for Edison Meter installation and 12kV switchgear maintenance. Brine line jetting inside the plant property. Server power source switched to the plant main UPS power to eliminate harmonics.
- 3/30- 12kV transformer testing started and completed. Plant startup at 15:00.
- 4/3- New check valves installed at wells I-6 and I-7.
- 4/5- Dump valve adjusted on RO Train #3 and #2 to eliminate leaks. Brine holding tanks drained and cleaned out to eliminate debris, Y-strainers installed on brine transfer and brine feed systems.
- 4/6- General pump tested well I-11, recommended pulling well due to vibration.
- 4/12- Contractors onsite prepping for S-GAC startup.
- 4/14- General pump installing Well I-4 and pulling well I-4.
- 4/18- Well I-4 installed and ran to waste at the plant. Bacti sample collected.
- 4/24- S-GAC placed online, wells 16-18 online and running.
- 4/26- N-GAC placed online, wells 1 and 3 online. Wells 2 and 4 offline due to sand.





# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 3**

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# Treatment Plant Operations

Summary of Activities

April 6, 2023 - May 4, 2023

## 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	86%	2,000	1,547	10%	Yes	1,500	Run	1,762
II-2	Fixed	2,000	1,522	10%	Yes	1,750	Run	1,583
II-3	Fixed	2,000	1,801	12%	Yes	2,000	Run	1,932
II-4	82%	2,000	1,576	10%	Yes	1,700	Run	1,732
II-6	92%	2,000	1,372	9%	Yes	1,500	Run	1,515
II-7	87%	1,200	791	5%	Yes	1,000	Run	926
II-8	Fixed	1,500	850	5%	Yes	1,200	Run	459
II-9	Fixed	2,000	1,562	10%	Yes	1,750	Idle	0
II-10	0%	3,700	3,000	19%	No	3,200	Idle	0
II-11	95%	3,300	0	0%	Yes	3,200	Run	2,772
II-12	88%	2,000	1,600	10%	Yes	1,600	Run	1,875
gpm	Total	23,700	15,621	100%	131%	20,400	93%	14,556
MGD		34.13	22.49			29.38		20.96

## 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	525	0.76	5	507	0.73
2	515	0.74	6	515	0.74
3	509	0.73	7	0	0.00
4	511	0.74	8	0	0.00
				3,082	4.44

## Raw Bypass

Production (gpm)	(MGD)
2,759	3.97

## Brine Flow

Production (gpm)	(MGD)
685	0.99

## Secondary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	70.0%	435	0.63
2	70.0%	435	0.63
3	70.0%	0	0.00
		870	1.25

## Plant Efficiency

Flow in Vs. Flow Out		
	(gpm)	(MGD)
Wells	14,556	20.96
Brine	-685	-0.99
	13,871	19.97
	95.3%	

## Plant Production

All Treatment Trains		
	(gpm)	(MGD)
Primary RO	8,670	12.48
Ion Exchange	3,082	4.44
Raw Bypass	2,759	3.97
Secondary RO	870	1.25
	15,381	22.1

## Summary of Activities

- \* Daily Plant Rounds/Weekly Samples    \* Weekly Calibrations
- \* 4/6/23 Chino II - E&I installed Brine Holding Tank level transducers
- \* 4/7/23 Chino II - 1110 ps ran in manual setpoint due to SCADA issue
- \* 4/10/23 Chino II - Plant shutdown due to SCADA PLC issue, Mark L. performed download to correct issue regarding 1110 PS
- \* 4/11/23 Chino II - Adjust all NRVs inlet rotorks from air block blowers
- \* 4/11/23 Chino II - Ramped up production at Chino II
- \* 4/14/23 Chino II - Well 7 failed due to faulty level transducer, new transducer installed
- \* 4/18/23 Chino II - Gravel pack installed in NRV-7
- \* 4/19/23 Chino II - Installed brine laterals and replaced all hardware in NRV-7
- \* 5/1/23 Chino II - Quarterly SAWPA inspection
- \* 5/3/23 Chino II - Install resin, fill with raw water and Disinfect NRV-7
- \*\* 4/10/23 CRF - Plant shutdown due to Chino II SCADA download
- \*\* 4/14/23 CRF - Installed a turbidimeter on Clarifier#1
- \*\* 4/23/23 CRF - Installed a new I/O card for CIP pump
- \*\* 5/2/23 CRF - Installed a new 4" air valve on blowdown station
- \*\* 5/3/23 CRF - Installed new flush water solenoid on blowdown pump #1



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 4**

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## FY 2022/23 CDA (Chino I and Chino II) Water Deliveries (Draft)

Month	Chino	Chino Hills	JCSD	Norco	Ontario	SARWC	Western MWD	Total
Jul-22	449.730	377.051	1,079.790	97.174	796.743	110.306	324.851	<b>3,235.645</b>
Aug-22	475.725	399.685	1,115.742	97.729	823.209	114.702	337.797	<b>3,364.589</b>
Sep-22	439.040	369.489	1,063.867	103.723	800.921	109.383	322.132	<b>3,208.555</b>
Oct-22	449.567	379.976	1,009.778	97.183	801.887	107.860	317.648	<b>3,163.899</b>
Nov-22	405.876	345.439	873.241	83.369	695.351	94.855	284.291	<b>2,782.422</b>
Dec-22	373.307	308.708	871.430	79.269	646.381	89.850	266.644	<b>2,635.589</b>
Jan-23	368.328	273.475	762.112	69.709	565.867	80.412	238.842	<b>2,358.745</b>
Feb-23	360.333	281.473	764.300	63.498	526.766	78.182	218.777	<b>2,293.329</b>
Mar-23	407.131	279.923	943.035	87.215	720.743	96.974	308.769	<b>2,843.790</b>
Apr-23	453.904	352.492	1,052.303	84.849	717.744	104.823	308.705	<b>3,074.820</b>
May-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
Jun-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	<b>0.000</b>
<b>Total FY 22/23 Deliveries</b>	<b>4,182.941</b>	<b>3,367.711</b>	<b>9,535.598</b>	<b>863.718</b>	<b>7,095.612</b>	<b>987.347</b>	<b>2,928.456</b>	<b>28,961.383</b>
<b>Contract Entitlement</b>								
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 April 2023 (AF)	<b>4,182.9</b>	<b>3,367.7</b>	<b>9,535.6</b>	<b>863.7</b>	<b>7,095.6</b>	<b>987.3</b>	<b>2,928.5</b>	<b>28,961.4</b>
	<b>100.4%</b>	<b>96.2%</b>	<b>97.5%</b>	<b>103.6%</b>	<b>99.8%</b>	<b>98.7%</b>	<b>99.4%</b>	<b>98.7%</b>

**Notes:**

- Actual deliveries to date are shaded.

Water Deliveries Through

**Apr-23**

Submitted By:

Tom O'Neill, General Manager/CEO

Date

Approved By:

CDA Technical Advisory Committee

Approved On:



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 7**

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**Chino Basin Desalter Authority**  
**Board Meeting Agenda Items**

<b>June 2023 Board Meeting (Special)</b>
CANCELLED

<b>July 6, 2023 Board Meeting (Regular)</b>			
Annual Contracts:			
Bulk Supply of Sodium Hydroxide 2023/24			
Transportation and Beneficial Reuse of Disposal of Biosolids			
Efficiency Testing of Water Well and Booster Pumps			
On-Call Services for Efficiency Testing of Water Well and Booster Pumps			
Laboratory Services			
Brenntag - CIP Chemicals Renewal			
Aquasystec - CII SCADA Programming/Maintenance			
Carollo Engineers - CRF Operations Support			
Hazen & Sawyer - On-Call Services Misc. Engineering Support			
Contract Award for Chino II Exterior Painting - Various Tanks	O'Neill/CDA	6/13/2023	6/22/2023
Reserve Policy	Chung/CDA	6/13/2023	6/22/2023
Investment Policy Review	Chung/CDA		6/22/2023
Quarterly Financial Reports	Chung/CDA		6/22/2023



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 8**

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# *Chino Basin Desalter Authority*

## TAC Meeting Agenda Items

**May 23, 2023**

CANCELLED

**June 13, 2023**

Annual Contracts:

Bulk Supply of Sodium Hydroxide 2023/24

Transportation and Beneficial Reuse of Disposal of Biosolids

Efficiency Testing of Water Well and Booster Pumps

On-Call Services for Efficiency Testing of Water Well and Booster Pumps

Laboratory Services

Brenntag - CIP Chemicals Renewal

Aquasystec - CII SCADA Programming/Maintenance

Carollo Engineers - CRF Operations Support

Hazen & Sawyer - On-Call Services Misc. Engineering Support

Contract Award for Chino II Exterior Painting - Various Tanks

Reserve Policy