



# Technical Advisory Committee Meeting

July 25, 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**

**July 25, 2023 at 1:30 p.m.**

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

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<https://us02web.zoom.us/j/87457108844?pwd=NWxySjFITXVERXg4NzAyc0xMcU9kUT09>

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.*

**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 20, 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. AMENDMENT NO. 1 TO AGREEMENT WITH TE ROBERTS, INC. FOR ENVIRONMENTAL CLEANUP SERVICES AND SOLIDS HANDLING SUPPORT**  
Report By: Thomas O'Neill, CDA General Manager/CEO
- 6. CHINO I DESALTER VOC TREATMENT FACILITIES PROJECT: AMENDMENT NO. 3 FOR BUTIER ENGINEERING, INC. FOR CONSTRUCTION MANAGEMENT & INSPECTION**  
Report By: Thomas O'Neill, CDA General Manager/CEO
- 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**

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 July 22, 2023 at 1:30 p.m.

  
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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**

**June 20, 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  
Alyssa Coronado, Santa Ana River Water Company

**Others Present:**

Thomas O'Neill, CDA General Manager/CEO  
Casey Costa, CDA Executive Assistant  
Michael Chung, CDA CFO/Treasurer  
Christine Convento, CDA Accounting Manager  
Pete Vicario, City of Chino  
Albert Magallon, Western Municipal Water District  
Mary Hambel, Hazen & Sawyer

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

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

**AGENDA ITEMS**

1.	<b>MINUTES OF APRIL 11, 2023 TECHNICAL ADVISORY COMMITTEE MEETING</b> Minutes were approved as submitted.
2.	<b>CHINO I OPERATIONS REPORT</b> Report By: Chris Waggener/Inland Empire Utilities Agency <ul style="list-style-type: none"><li>• Plant Production 12.05 MGD</li><li>• 5/4- New S GAC acid tank set and mounted.</li><li>• 5/5- NRV-4 Subsurface wash valve replaced.</li><li>• 5/8- N GAC taken offline and ran to waste due to bacti issues.</li><li>• 5/16- New Acid tank (East tank) placed online.</li><li>• 5/18- Chlorinating North-GAC effluent and North-GAC placed back to production. Caustic scrub scheduled for NGAC and SGAC with GAC supplier.</li><li>• 5/22- Chlorine Tanks removed for replacement. Switched over to 12.5% Sodium hypochlorite totes and emergency supply lines until tanks are replaced.</li></ul>

	<ul style="list-style-type: none"> <li>• 5/23- Chlorine tank pads media blasted and prepped for new coating.</li> <li>• 5/30- Caustic scrub started on N-GAC vessels.</li> <li>• 6/1- Oil changed on RO boosters #1-5.</li> <li>• 6/2- N-GAC caustic scrub, backwash, flushing completed. N-GAC placed online.</li> <li>• 6/5- S-GAC offline for Caustic scrub. Caustic scrub started on Train 3 vessels.</li> <li>• 6/7- Isolated plant overflow piping to verify leak, leak verified to be on overflow piping. Slow leak will be scheduled for repair. New chlorine tank installation started. Chlorine tanks set on pads. S-GAC Caustic scrub, backwash, flushing completed. S-GAC placed online.</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 23.1 MGD</li> <li>• 5/9/23 Increased plant production from 22 MGD to 23 MGD</li> <li>• 5/10/23 Completing NRV-7 rehab, collected follow up sampling and adjusted Rotork limits on NRV-7</li> <li>• 5/16/23 Asset Reliability changing oil on transfer pump station</li> <li>• 5/17/23 Asset Reliability changing oil on 1110 pump station</li> <li>• 5/18/23 Installed temp chlorine dosing system for chlorine tank upgrade project</li> <li>• 5/22/23 Test temporary chlorine dosing system before placing into service</li> <li>• 5/23/23 Switched to temp chlorine dosing system for removal of existing tanks</li> <li>• 5/24/23 Contractors removed older chlorine tanks for upgrade</li> <li>• 5/25/23 Pump check performing well efficiency testing</li> <li>• 5/31/23 Coating contractors onsite to coat chlorine tank pads</li> </ul> <p><b><u>CRF</u></b></p> <ul style="list-style-type: none"> <li>• 5/14/23 - Reduced flow to CRF 950 gpm in preparation to bring clarifier #2 online</li> <li>• 5/15/23 - Put clarifier #2 in svc, clarifier #1 offline to rebuild PVC caustic feed line</li> <li>• 5/15/23 - Asset Reliability installed flush ring pump into CLR-2</li> <li>• 5/16/23 - Both clarifiers in service, even out flows and ramp up plant to 1400 gpm</li> <li>• 5/17/23 - E&amp;I onsite to troubleshoot seed feed VFD issue</li> <li>• 5/24/23 - CIP on SRO#3</li> <li>• 5/28/23 - Repaired 2" PVC failure on the sludge blowdown station</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 at 99.7% of entitlements.</p>

5.	<p><b>CONTRACT FOR CII DESALTER EXTERIOR PAINTING PROJECT</b>  Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve the contract award for the Chino II Ion Exchange Coating Improvement Project to Capital Industrial Coatings in the not-to-exceed amount of \$395,258. This contract is for the surface preparation and coating of nine fiberglass tanks and eleven steel vessels connected to the ion exchange treatment system at the Chino II desalter. The RFP was advertised on PlanetBid on April 21, 2023, 44 vendors were notified and five bids were received on May 30, 2023. A thorough analysis was conducted on the apparent low bid submitted by Capital Industrial Coatings, LLC, and it was compared to the other received bids. The evaluation confirmed that their bid package was responsive and reasonably aligned with the engineer's estimate of \$396,000..</p>
6.	<p><b>PROFESSIONAL SERVICES AGREEMENT WITH HARPER &amp; ASSOCIATES ENGINEERING, INC. ENGINEERING CONSTRUCTION SERVICES AND QUALITY CONTROL COATING INSPECTION FOR VARIOUS STRUCTURES</b>  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 Harper &amp; Associates Engineering, Inc. for construction services and coating inspection services award for the Chino II Ion Exchange Coating Improvement Project in the not-to-exceed amount of \$74,100. Choosing Harper for construction support and inspection services will yield advantages in terms of project efficiency and success, due to their comprehensive understanding of the various projects involved.</p>
7.	<p><b>PROFESSIONAL SERVICES AGREEMENT WITH CAROLLO ENGINEERS, INC. FOR ON-CALL SUPPORT SERVICES FOR CONCENTRATE REDUCTION FACILITY OPERATIONS</b>  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, Inc., in the not-to-exceed amount of \$100,000 for concentrate reduction facility operations support services for FY 2023/24. In the ongoing effort to enhance CRF operations by optimizing operations and reducing operational expenses, Carollo is responsible for several tasks, including Project Management, Operations Assessment Services, and Operator Training Services. The Professional Services Agreement with Carollo is a sole source award, in accordance with the adopted Purchasing Policy. All work performed under this contract will be billed at an hourly rate, with specific tasks assigned and approved by the CDA, for actual hours worked and tasks completed.</p>
8.	<p><b>AMENDMENT 2 TO HAZEN &amp; SAWYER PROFESSIONAL SERVICES AGREEMENT FOR ON-CALL ENGINEERING SUPPORT SERVICES</b>  Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve Amendment 1 to the Professional Services Agreement with Hazen &amp; Sawyer in the not-to-exceed amount of \$828,000 for engineering support services for FY 2023/24. In July 2021, Requests for</p>

	<p>Proposals (RFPs) were publicly announced for On-Call Engineering Support Services and Hazen &amp; Sawyer achieved the highest ranking during the evaluation process for FY 2021/22. Proposals were assessed and it was determined that Hazen &amp; Sawyer had the most favorable ranking. The Board authorized an agreement with Hazen and Sawyer in August 2021 in the amount of \$230,000 for engineering support services for FY 2021/22 and Amendment No. 1 on June 2, 2022, in the amount of \$510,000 for general support and CIP engineering services for FY 2022/23. General Manager O'Neill reviewed the tasks needed for FY 2023/24 totaling \$828,000.</p>
<p>9.</p>	<p><b>CLARIFIER SOLIDS TRANSPORT AND MANAGEMENT AGREEMENT WITH SYNAGRO-WWT, INC. WATER SOLUTIONS</b>  Report By: Thomas O'Neill, CDA General Manager/CEO</p> <p>General Manager O'Neill reviewed the recommendation to approve Amendment 1 to the Contract with Synagro-WWT, Inc. for Transport and Disposal of Clarifier Solids in the not-to-exceed amount of \$475,000. On April 18, a competitive RFP was issued, with notifications sent to 31 potential bidders. On May 11, 2023, six responses were received, and Synagro was the lowest bidder. On June 8, 2023, a one-year contract was entered into according to the General Manager/CEO's authorization limit for competitively bid procurements, Staff recommends that the Board approve Amendment 1, increasing authorized expenditures in the amount of \$475,000 for a total not-to-exceed amount of \$575,000 for services through the end of fiscal year 2023/24.</p>
<p>10.</p>	<p><b>PROFESSIONAL SERVICES AGREEMENT FOR LABORATORY SERVICES FOR CHINO I AND CHINO II DESALTERS</b>  Report By: Thomas O'Neill, CDA General Manager/CEO</p> <p>General Manager O'Neill reviewed the recommendation to award a contract for laboratory services to Babcock Laboratories in the not-to-exceed amount of \$575,000. Babcock Laboratories submitted bid pricing of \$579,710 and was determined to be the lowest responsive and responsible bidder. Analysis of the bid from Babcock Laboratories was performed with their bid package being responsive and in reasonable conformance. CDA has been using Babcock Laboratories since the early 2000s and they have always shown they have the expertise and the ability to perform the work in a satisfactory manner. Due to the critical nature of this service, CDA staff is recommending the award go to Babcock laboratories.</p>
<p>11.</p>	<p><b>PROFESSIONAL SERVICES AGREEMENT WITH AQUASYSTEC FOR SCADA PROGRAMMING AND MAINTENANCE SERVICES FOR CHINO II DESALTER</b>  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 Aquasystec, in the not-to-exceed amount of \$150,000 for SCADA Support Services at the Chino II Desalter for FY 2023/24. Aquasystec has specialized expertise in troubleshooting and repairing SCADA programming and has been providing those services for the CDA since construction of the Chino II Desalter. The Professional Services Agreement with Aquasystec is a sole source award, in accordance with the adopted Purchasing Policy. All work under this contract will be based</p>

	<p>on an hourly rate, on an as-needed basis with specific tasks assigned and authorized by the CDA. Support services are billed at the hourly rate of \$175 flat rate, no overtime, travel time or after-hours surcharges are applied</p>															
<p><b>12.</b></p>	<p><b>CONTRACT WITH UNIVAR SOLUTIONS USA INC. FOR SUPPLY OF SODIUM HYDROXIDE</b>                  Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve a contract with Univar Solutions USA Inc. for supply and delivery of 25% and 50% sodium hydroxide solutions, The proposed contract has an initial term of two years commencing July 1, 2023, until June 30, 2025. During the first year, the unit pricing will be fixed; a pricing adjustment may be made the second year upon mutual agreement. The contract allows for (3) additional one-year extensions, contingent upon mutual agreement on pricing, for a total contract duration of five years. A competitive RFP was issued via PlanetBids on April 18, 2023 to a total of 28 prospective suppliers and three bids were received as follows with Univar Solutions USA Inc. being the lowest bidder: 25% Solution \$ 1.3578/gallon, and 50% Solution \$ 2.8997/gallon.</p>															
<p><b>13.</b></p>	<p><b>CONTRACT WITH AMAYA SOLUTIONS, INC. DBA AMERICAN WATER CHEMICALS FOR SUPPLY OF CLEAN IN PLACE CHEMICALS</b>                  Report By: Thomas O’Neill, CDA General Manager/CEO</p> <p>General Manager O’Neill reviewed the recommendation to approve a contract with Amaya Solutions, Inc. dba American Water Chemicals for supply and delivery of Clean in Place chemicals. The RO systems at Chino I and II experience fouling and scaling from time to time, as is typical for a large RO facility. Different events require different types of cleaning chemicals and an RFP was issued on May 22, 2023 for five different products to 12 prospective suppliers. On June 12, 2023 one bid was received from Amaya Solutions, Inc. dba American Water Chemicals. The initial contract duration will be two years, from July 1, 2023, ending on June 30, 2025 and includes an option for (3) annual extensions, subject to mutual agreement on pricing. Pricing received is as follows:</p> <table border="0" data-bbox="341 1323 1315 1512"> <tr> <td>AWC C-231</td> <td>Low pH CIP</td> <td>\$1.455</td> </tr> <tr> <td>AWC C-219</td> <td>SILICA (Fluoride-based)</td> <td>\$1.993</td> </tr> <tr> <td>AWC C-237</td> <td>HIGH pH Particulate /Organic Fouling</td> <td>\$3.329</td> </tr> <tr> <td>AWC C-227</td> <td>HIGH pH Biofouling</td> <td>\$4.213</td> </tr> <tr> <td>AWC C-236</td> <td>HIGH pH SILICA</td> <td>\$3.340</td> </tr> </table>	AWC C-231	Low pH CIP	\$1.455	AWC C-219	SILICA (Fluoride-based)	\$1.993	AWC C-237	HIGH pH Particulate /Organic Fouling	\$3.329	AWC C-227	HIGH pH Biofouling	\$4.213	AWC C-236	HIGH pH SILICA	\$3.340
AWC C-231	Low pH CIP	\$1.455														
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AWC C-227	HIGH pH Biofouling	\$4.213														
AWC C-236	HIGH pH SILICA	\$3.340														
<p><b>14.</b></p>	<p><b>APPROVAL OF REVISED RESERVE POLICY</b>                  Report By: Michael Chung, CDA CFO/Treasurer</p> <p>Treasurer Chung reviewed the recommendation to approve a Revised Reserve Policy to adjust the Operating Contingency from \$4.63 Million to \$5.67 Million in consideration of the adopted budget for 2023/24 of \$34.06 Million and increase in the Membrane Reserve from \$41,000 to \$60,000 and an increase in specific identified Capital Projects from \$2.0 Million to \$4.0 Million.</p>															



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15.	<b>BOARD MEETING AGENDA ITEMS REVIEW</b> Report By: Thomas O’Neill, CDA General Manager/CEO General Manager O’Neill reviewed upcoming Board Items.
16.	<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.

There being no further business, the meeting was adjourned at 2:20 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

June 12th, 2023 to July 15th, 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	54%	600	288	3%	Yes	288	Run	288
**I-2	0%	300	0	0%	Yes	0	Run	0
I-3	89%	600	449	4%	Yes	449	Run	449
**I-4	0%	300	0	0%	Yes	0	Run	0
I-5	95%	1,200	1,114	11%	Yes	1,114	Run	1,114
I-6	100%	350	363	3%	Yes	363	Run	363
*I-7	0%	1,200	0	0%	Yes	0	Run	0
I-8	97%	900	974	9%	Yes	974	Run	974
I-9	96%	1,200	1,112	11%	Yes	1,112	Run	1,112
I-10	96%	1,200	1,162	11%	Yes	1,162	Run	1,162
****I-11	0%	1,200	0	0%	No	0	Idle	0
*I-13	82%	2,000	932	9%	Yes	932	Run	932
I-14	100%	2,200	2,075	20%	Yes	2,075	Run	2,075
I-15	62%	2,000	1,052	10%	Yes	1,052	Run	1,052
I-16	100%	250	149	1%	Yes	149	Run	149
I-17	100%	200	142	1%	Yes	142	Run	142
I-18	100%	200	165	2%	Yes	165	Run	165
I-20	100%	400	394	4%	Yes	394	Run	394
I-21	100%	400	164	2%	Yes	164	Run	164
gpm	Total	16,700	10,535	100%	100%	10,535	100%	10,535
MGD		24.05	15.17			15.17		15.17

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

### Primary RO Treatment

Train	Recovery Rate	Production (gpm)	(MGD)
1	79.0%	1,237	1.78
2	79.0%	1,237	1.78
3	79.0%	1,237	1.78
4	79.0%	1,237	1.78
5	79.0%	1,237	1.78
		6,185	8.91

### Ion Exchange Treatment

Train	(gpm)	(MGD)
1	414	0.60
2	414	0.60
3	414	0.60
4	414	0.60
	1,656	2.38

### North GAC

Production (gpm)	(MGD)
720	1.04

### Brine Flow

Production (gpm)	(MGD)
1,636	2.34

### Plant Efficiency

	Flow in (gpm)	Vs. Flow Out (MGD)
Wells	10,535	15.17
Brine	-1636	-2.34
	8,899	12.83

### Plant Production

	Flow in (gpm)	Vs. Flow Out (MGD)
Primary RO	6,185	8.91
Ion Exchange	1,656	2.38
N-GAC	720	1.04
	8,561	12.33

### Summary of Activities

- 6/14- Chlorine Tank replacement completed. Chlorine generator brine pump faulted on startup, operations was able to repair and chlorine generator placed online. Chlorine tanks filling overnight.
- 6/15- Chlorine tanks #1 and #2 placed online. Switched over chlorine pumps #4 and #5 back to chlorine tanks.
- 6/16- Chlorine Tanks #1 and #2 level transducers calibrated due to higher placement of sensor on tanks.
- 6/19- Chlorine room A/C blower motor faulted. Replacement motor ordered.
- 6/20- Well #1 and #2 flow meters replaced with new meters.
- 6/21- Backwashed S-GAC Train 3 vessels to due elevated plate counts. Chlorine room A/C blower motor replaced.
- 6/25- Decarbonator #2 motor failed. Found power lines shorted and receiving stray current. Temporary power ran to motor and placed back in service.
- 6/26- End User Booster #5 VFD internal fan replaced and placed back in service.
- 6/29- SWMOA workshop held at Chino I. Production lowered from 06:00-16:00.
- 7/1- Wells #1-4 Plant influent flow meter failed, meter needs replacement.
- 7/5 to 7/7- Slurry seal around plant started and completed.
- 7/11- New power lines pulled to Decarbonator #2 blower motor. Temporary power removed.
- 7/14- End User Booster #6 VFD failed. Placed offline and awaiting inspection.



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 3**

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# Chino II Desalter Treatment Plant Operations

Summary of Activities

June 9, 2023 - July 15, 2023

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	87%	2,000	1,547	8%	Yes	1,500	Run	1,550
II-2	Fixed	2,000	1,522	8%	No	1,750	Idle	0
II-3	Fixed	2,000	1,801	9%	Yes	2,000	Run	1,845
II-4	98%	2,000	1,576	8%	Yes	1,700	Run	1,910
II-6	95%	2,000	1,372	7%	Yes	1,500	Run	1,467
II-7	97%	1,200	1,319	7%	Yes	1,000	Run	1,319
II-8	Fixed	1,500	1,000	5%	Yes	1,200	Run	405
II-9	Fixed	2,000	1,562	8%	Yes	1,750	Run	1,534
II-10	90%	3,700	3,200	16%	Yes	3,200	Run	2,467
II-11	95%	3,300	3,000	15%	Yes	3,200	Run	2,595
II-12	96%	2,000	1,600	8%	Yes	1,600	Run	2,007
gpm	Total	23,700	19,499	100%	105%	20,400	88%	17,099
MGD		34.13	28.08			29.38		24.62

### 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	590	0.85	5	585	0.84
2	595	0.86	6	0	0.00
3	585	0.84	7	553	0.80
4	575	0.83	8	0	0.00
				3,483	5.02

### Raw Bypass

Production (gpm)	(MGD)
3,358	4.84

### Brine Flow

Production (gpm)	(MGD)
687	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 (gpm)	Flow Out (MGD)
Wells	17,099	24.62
Brine	-687	-0.99
	16,412	23.63
		96.0%

### Plant Production

	(gpm)	(MGD)
All Treatment Trains		
Primary RO	8,670	12.48
Ion Exchange	3,483	5.02
Raw Bypass	3,358	4.84
Secondary RO	870	1.25
	16,381	23.6

### Summary of Activities

- \* Daily Plant Rounds/Weekly Samples \* Weekly Calibrations
- \* 6/14/23 Chino II - Contractor onsite to install new chlorine tanks
- \* 6/15/23 Chino II - General Pump completed rehab work on Well II-10
- \* 6/16/23 Chino II - Flushed Well II-10 and pulled samples
- \* 6/20/23 Chino II - Well II-10 brought to plant, increased overall production to 24.1 MGD
- \* 6/23/23 Chino II - Generated 0.8% chlorine solution and put tanks into service
- \* 7/6/23 Chino II - Replaced faulty acuator on IX reclaim tank.
- \* 7/6/23 Chino II - IX communication issues. Reduced plant production temporarily.
- \* 7/8/23 Chino II - IX communication issues adressed, increased plant production
- \* 7/12/23 Chino II - Asset Reliability installed new impeller on Softener Brine Pump-201
- \* 7/13/23 Chino II - II-2 removed from service by General Pump for well rehab.
- \* 7/14/23 Chino II - RO train 3 and IX inlet communication issue, found faulty A/O card
- \*\* 6/9/23 CRF - Asset Reliability and welder onsite to repair centrifuge 1 incline conveyor
- \*\* 6/13/23 CRF - Asset Reliability changed out mechanical seal on SRO train 3 feed pump
- \*\* 7/11/23 CRF - Gravity Thickener #2 offline. Welder brought in to repair corrosion



# **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	443.211	408.030	1,052.822	95.796	765.876	108.937	320.820	<b>3,195.492</b>
Jun-23	418.975	464.314	1,232.645	89.879	727.287	110.112	315.145	<b>3,358.357</b>
<b>Total FY 22/23 Deliveries</b>	<b>5,045.127</b>	<b>4,240.055</b>	<b>11,821.065</b>	<b>1,049.393</b>	<b>8,588.775</b>	<b>1,206.396</b>	<b>3,564.421</b>	<b>35,515.232</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 June 2023 (AF)	<b>5,045.1</b>	<b>4,240.1</b>	<b>11,821.1</b>	<b>1,049.4</b>	<b>8,588.8</b>	<b>1,206.4</b>	<b>3,564.4</b>	<b>35,515.2</b>
	<b>100.9%</b>	<b>101.0%</b>	<b>100.8%</b>	<b>104.9%</b>	<b>100.7%</b>	<b>100.5%</b>	<b>100.9%</b>	<b>100.9%</b>

**Notes:**

- Actual deliveries to date are shaded.

**Water Deliveries Through**

**Jun-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. 5**

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**SUBJECT: AMENDMENT NO. 1 TO AGREEMENT WITH TE ROBERTS, INC. FOR ENVIRONMENTAL CLEANUP SERVICES AND SOLIDS HANDLING SUPPORT**

**RECOMMENDATION:**

Staff recommends that the Board:

1. Approve Amendment No. 1 to the Maintenance Services Agreement with TE Roberts, Inc. for Environmental Cleanup Services and Solids Handling Support in the not-to-exceed amount of \$35,000.
2. Authorize the General Manager/CEO to finalize and execute the amendment and approve authorized expenditures up to a new not-to-exceed total of \$85,000.

**BACKGROUND:**

In May 2022 CDA entered into a Maintenance Service Agreement with TE Roberts, Inc. in the not-to-exceed amount of \$50,000 for Environmental Cleanup Services and Solids Handling Support for services during fiscal year 2022/23. These services are needed to vacuum and dispose of pellets generated by the Concentrate Reduction Pellet Reactor during maintenance periods.

Expenditures through the end of fiscal year 2022/23 amount to \$85,000 and Board approval of the remaining amount of \$35,000 is required to approve Amendment 1 and authorize these additional expenses. The costs exceeded the initial estimates partly due to the termination of the contract with Specialty Minerals for transporting and disposing of pellets in May 2023. TE Roberts has stepped in to provide these services. Furthermore, Denali Water Solutions, contracted by CDA for transportation and disposal of wastewater biosolids, faced reliability issues during the winter storms, and TE Roberts has been assisting in fulfilling these services as well. This item was reviewed and approved by the Technical Advisory Committee on July 25, 2023 and the Finance Committee on July 27, 2023.

**IMPACT ON BUDGET:**

Environmental Cleanup Services and Solids Handling Support are part of the Professional Services Category. There is sufficient budget within the Professional Services Category to offset this expense.



# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 6**

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**SUBJECT: CHINO I DESALTER VOC TREATMENT FACILITIES PROJECT:  
AMENDMENT NO. 3 FOR BUTIER ENGINEERING, INC. FOR  
CONSTRUCTION MANAGEMENT & INSPECTION**

**RECOMMENDATION:**

Staff recommends that the Board:

1. Approve Amendment No. 3 for Butier Engineering, Inc. for construction management and inspection services in the not-to-exceed amount of \$55,000; and
2. Authorize the General Manager/CEO to finalize and execute the agreement, with subsequent authorizations up to a not-to-exceed total of \$815,000.

**BACKGROUND:**

The Board authorized an agreement with Butier Engineering, Inc for Construction Management and Inspection services for the Chino I VOC Facilities Project on July 1, 2021, in the amount of \$687,131 with an authorization limit up to a not-to-exceed total of \$760,000 for the General Manager/CEO. Amendment No. 1 extended the contract term through December 31, 2022. Amendment No. 2 extended the contract term through May 1, 2023, and included additional compensation up to a total of \$760,000.

The project was substantially completed and started up in April 2023. However, there are outstanding items requiring Butier’s participation in the project through June 30, 2023. The additional effort is primarily related to extended project duration related to supply chain and permitting delays, and change order management for project changes due to material and product availability and conditions encountered in the field. The primary tasks to be completed under the proposed Amendment No. 3 include additional meetings, change order management, warranty coordination, punch list items, and final construction payments and reporting.

The total amount requested for the amendment is \$55,000, with San Bernardino County Airports responsible for 50% of this cost. This recommendation was reviewed by the TAC on July 25, 2023, and the Finance Committee on July 27, 2023.

**IMPACT ON BUDGET:**

The project is funded by grant funding from USBR, contribution from County of San Bernardino, and funds budgeted by CDA for this project.

**ATTACHMENTS:** 1). Butier Amendment No. 3 Proposal

**Prepared by:** Thomas O’Neill, CDA General Manager/CEO

**Board of Directors:**     Approved         Continued         Denied

**CDA GM/CEO Acknowledgement:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## Amendment No. 3

June 2, 2023

Mr. Thomas O'Neill  
General Manager/CEO  
Chino Basin Desalter Authority  
3550 E. Philadelphia Street, Suite 170  
Ontario, CA 91760

**Subject: Butier Engineering, Amendment No. 3 Construction Management and Inspection Services for the Chino I Desalter VOC Treatment Facilities Project**

Dear Mr. O'Neill:

Butier is requesting an amendment in the amount of **\$55,000.00** (please see attached) to complete our required contract scope. We have projected our services through the end of June anticipating oversight of the final punch list items and facility start-up requirements. Butier has documented the project delays and memorialized the punch list items still outstanding. CDA is aware of the specific field challenges over the last 3-4 months. If required, a more detailed analysis can be provided to support our request.

We anticipate our contract scope to be complete by June 30, 2023. If you have any further questions, please contact Billy Stewart or the undersigned for more information.

Respectfully Yours,  
**BUTIER** Engineering, Inc.  
Construction Managers, Consulting Engineers



Mark M. Butier, Jr.  
President/CFO



Butier Engineering, Inc. - Estimated Level of Effort Chino 1 Desalter VOC Treatment Facilities Amendment No. 3		CM/RE	Lead Inspector QA/QC	Field Engineer	Senior Scheduler	Total Proposed Cost
Rates		\$ 200.00	\$ 140.00	\$ 137.00	\$ 205.00	
Units		Hours	Hours	Hours	Hours	
Task #	Chino 1 Desalter VOC Treatment Facilities					
<b>1</b>	<b>Management and Coordination Services</b>	0	0	0	0	\$ -
1.1	Interaction with Others					\$ -
1.2	Information Systems					\$ -
1.3	Office Facilities					\$ -
1.4	Staffing Plan					\$ -
1.5	Monthly Invoices and Accounting					\$ -
1.6	Document Control System					\$ -
1.7	Filing System					\$ -
1.8	Meeting and Notice Procedures					\$ -
1.9	Quality Assurance/ Quality Control Plan					\$ -
1.10	Contract Compliance Plan					\$ -
1.11	Project Control Plan					\$ -
1.12	Safety Plan					\$ -
1.13	Budget Support					\$ -
1.14	Technical Library					\$ -
<b>2</b>	<b>Preconstruction Services</b>	0	0	0	0	\$ -
2.1	Familiarity with the Work					\$ -
2.2	Quality Assurance/ Quality Control Plan					\$ -
2.3	Preconstruction Site Survey					\$ -
2.4	Full and Responsible Charge of the Project					\$ -
2.5	Master Submittal List					\$ -
2.6	Preconstruction Meetings					\$ -
<b>3</b>	<b>Mobilization</b>	0	0	0	0	\$ -
3.1	Field Office Mobilization and Equipment					\$ -
3.2	Safety Program					\$ -
3.3	Site Coordination					\$ -
3.4	Environmental Training					\$ -
3.5						\$ -
<b>4</b>	<b>Correspondence and Reports</b>	0	0	0	0	\$ -
4.1	Document Standards					\$ -
4.2	Document Control/Logs/Reader File/Security					\$ -
4.3	Board Presentations					\$ -
<b>5</b>	<b>Site Conditions &amp; Progress Visual Documentation</b>	0	0	0	0	\$ -
5.1	Contractor's Preconstruction Video					\$ -
5.2	Progress Photos and Library					\$ -
5.3	Progress and Other Videos					\$ -
<b>6</b>	<b>Meetings</b>	32	0	0	0	\$ 4,736.00
	Meetings	32				\$ 4,736.00
<b>7</b>	<b>Shop Drawings and Submittal Reviews</b>	0	0	0	0	\$ -
7.1	Master Submittal List					\$ -
7.2	Submittal Reviews/Log					\$ -
7.3	Schedule Reviews					\$ -
7.4	Field Copies and Originals					\$ -
<b>8</b>	<b>Plan and Specification Interpretation/Control</b>	0	0	0	0	\$ -
8.1	Inspection of the Work					\$ -
8.2	Requests for Information					\$ -
8.3	Requests for Changes in Design					\$ -
8.4	Value Engineering Proposals					\$ -
8.5	Record Drawings and Specifications					\$ -
<b>9</b>	<b>CM Administration and Staffing</b>	0	0	0	0	\$ -
9.1	Daily Management					\$ -
9.2	Resolution of Day-to-Day Construction Issues					\$ -
<b>10</b>	<b>Environmental Coordination</b>	0	0	0	0	\$ -
10.1	Coordination	0	0	0	0	\$ -
10.2	Compliance and Mitigation	0	0	0	0	\$ -
10.3	Environmental Training	0	0	0	0	\$ -
<b>11</b>	<b>Progress Payments</b>	0	0	0	0	\$ -
11.1	Labor Compliance					\$ -
11.2	Monthly Review					\$ -
<b>12</b>	<b>Change Order Management</b>	125	0	0	0	\$ 18,500.00
	Change Order Management	125	0	0	0	\$ 18,500.00
<b>13</b>	<b>Claims Management</b>	0	0	0	0	\$ -
	Claims Management	0	0	0	0	\$ -
<b>14</b>	<b>Monthly Construction Management Reports</b>	0	0	0	0	\$ -
	Monthly Reports					\$ -
<b>15</b>	<b>O&amp;M Manuals and Warranty Expiration</b>	4	0	4	0	\$ 997.52
15.1	Operations and Maintenance Manuals	0	0	0	0	\$ -
15.2	Warranty Expiration Record	4	0	4	0	\$ 997.52
<b>16</b>	<b>Startup, Closeout and Acceptance Services</b>	24	24	0	0	\$ 6,038.40
16.1	Pre-Operational Testing Plan					\$ -
16.2	Punch List		24			\$ 2,486.40







# **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>August 3, 2023 Board Meeting (Special)</b>		<b>TAC</b>	<b>Finance</b>
TE Roberts - Amend1 to Agreement for Environmental Cleanup and Solids Handling		7/25/2023	7/27/2023
Butier - Amend3 VOC Project Construction Management		7/25/2023	7/27/2023
Quarterly Operations Report		-	-
<b>September 7, 2023 Board Meeting (Special)</b>		<b>TAC</b>	<b>Finance</b>
SAP Construction of Well I-11 Booster Pump Station		8/8/2023	8/24/2023
		-	-





# **Technical Advisory Committee Meeting**

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## **Agenda Item**

### **No. 8**

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# *Chino Basin Desalter Authority*

## TAC Meeting Agenda Items

<b>August 8, 2023</b>
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Meeting Minutes
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Chino I Operations Report
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Chino II/CRF Operations Report
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Water Deliveries
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SAP Construction of Well I-11 Booster Pump Station
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<b>August 22, 2023</b>
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Meeting Minutes
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Chino I Operations Report
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Chino II/CRF Operations Report
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