



San Diego County Water Authority

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October 6, 2005

Mr. Ken Rakeshaw
Acting Principal Engineer
International Boundary and Water Commission
Engineering Department
4171 N. Mesa, Ste.C-100
El Paso, TX 79902

MEMBER AGENCIES

- Carlsbad
Municipal Water District
- City of Del Mar
- City of Escondido
- City of National City
- City of Oceanside
- City of Poway
- City of San Diego
- Fallbrook
Public Utility District
- Helix Water District
- Olivenhain
Municipal Water District
- Otay Water District
- Padre Dam
Municipal Water District
- Camp Pendleton
Marine Corps Base
- Rainbow
Municipal Water District
- Ramona
Municipal Water District
- Rincon del Diabla
Municipal Water District
- San Dieguito Water District
- Santa Fe Irrigation District
- South Bay Irrigation District
- Vallecitos Water District
- Valley Center
Municipal Water District
- Vista Irrigation District
- Yuma
Municipal Water District

OTHER REPRESENTATIVE

County of San Diego

Re: Request for Delivery of Mexican Treaty Waters

Dear Mr. Rakeshaw:

This is in response to your October 3, 2005, letter regarding the Mexican Section of the International Boundary and Water Commission (IBWC) request for emergency delivery of a portion of Mexico's Colorado River Treaty water to Tijuana. Included below is the information you had requested on capacity available in the California aqueduct system and cost estimate for the proposed emergency delivery schedule.

Availability of Capacity

The Water Authority has consulted with the Metropolitan Water District (Metropolitan) and Otay Water District (Otay) regarding the availability of capacity in their systems necessary to deliver the requested 247.8 AF of water starting at 9:00 AM on October 25, 2005, and ending at 2:00 PM on October 31, 2005.

The California agencies (Metropolitan, San Diego County Water Authority, and Otay) have determined they will be able to provide the amount of water requested, barring any unexpected interruptions due to capacity limitations or emergency situations.

There may be a decrease or temporary suspension in flow during peak delivery periods due to capacity constraints in Metropolitan's Skinner Treatment Plant. The length of these potential capacity limitations will vary from one to a few days depending upon the weather and demands within San Diego County. As noted in the IBWC draft joint report entitled, "Joint Report of the Principal Engineers and Technical Advisors to Facilitate Emergency Delivery of Colorado River Water for use in Tijuana, Baja California, Mexico," there may also be unexpected interruptions in flow due to unforeseen repair requirements or emergencies.

A public agency providing a safe and reliable water supply to the San Diego region

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The California agencies are interested in working with the Comisión Estatal de Servicios Públicos de Tijuana (CESPT) to discuss how best to handle these potential capacity constraints during peak periods and other situations of potential interruptions in flow to ensure the requested emergency supplies can be delivered.

Cost Estimate for Requested Emergency Deliveries

The estimated cost for deliveries requested in the October 3, 2005, letter have been calculated utilizing the format included in Table 1 of the IBWC draft joint report. Exhibit B to IBM No. 03-21, for October 2005 includes a breakdown of estimated charges by each California agency. The total estimated amount for the requested 247.8 AF of water is \$161,707.06. Funds in the amount of \$132,540.38 to cover previously requested deliveries were deposited with the Water Authority on September 16, 2005. An additional \$29,166.68 needs to be deposited prior to initiation of deliveries.

Water Quality – Disinfectant Residual

The CESPT should be advised that the water delivered to Mexico from the California agencies is treated with chloramines to maintain a disinfectant residual. The blend ratio is 5:1 chlorine over ammonia. If the water delivered is blended with water utilizing another form of disinfectant, i.e. "free chlorine," there is a potential that the different disinfectants may react to cancel out residuals, depending on blend ratios. The end result could be no disinfectant residual in the distribution system. We would be interested in discussing this issue further with CESPT in order to avoid any water quality problems in its system.

Please give me a call if you have any questions regarding the information provided or require additional information. I can be reached at 858-522-6741.

Sincerely,



Ken Weinberg
Director of Water Resources

Is

Enclosures

cc: Nancy DiDonato, United States Bureau of Reclamation
Ofelia Bolanos, United States International Boundary and Water Commission
Harry Ruzgerian, Metropolitan Water District
Pedro Porras, Otay Water District

Exhibit B to IBM No. 03-21
Charges to Mexico for Emergency Deliveries for Tijuana
of A Portion of Mexico's 1944 Colorado River Treaty Water
October 2005

(estimate)

On the basis of total
water handled
including losses at unit
charge for total water

Delivery to Mexico	
1. Water delivered to Mexico at international boundary near Tijuana as measured at Service Connection SD-TJ (acre-feet)	247.8
Payment to Otay Water District (OWD)	
2. OWD system loss at 3% of Line 1 (acre-feet) ^a	7.4
3. OWD total deliveries (Line 1 + Line 2)(acre-feet)	255.2
4. Unit payment due OWD for delivery charges and other expenses (\$/acre-foot)	\$105.54
5. Total payment to OWD (Line 3 x Line 4)	\$26,933.81
Payment to the San Diego County Water Authority (Authority)	
6. Water delivered by Authority for Mexico; same as Line 3 (acre-feet)	255.2
7. Authority system loss at 1% of Line 3 (acre-feet) ^a	2.6
8. Authority total deliveries (Line 6 + Line 7) (acre-feet)	257.8
9. Unit payment due Authority for delivery charges and other expenses (\$/acre-foot)	\$19.25
10. Total payment to Authority (Line 8 x Line 9)	\$4,962.65
Payment to Metropolitan Water District of Southern California (Metropolitan)	
11. Water delivered by Metropolitan for Mexico; same as Line 8 (acre-feet)	257.8
12. Metropolitan system loss at 3.6% of Line 8 (acre-feet) ^a	9.3
13. Metropolitan total deliveries (Line 11 + Line 12)(acre-feet)	267.1
14. Unit payment due Metropolitan for use of existing diversion and conveyance works, water treatment, and other expenses (Unit charge includes Metropolitan's System Access Rate, Water Stewardship Rate and Treatment Surcharge) (\$/acre-foot)	\$289.00
15. Unit payment due Metropolitan for electric energy, determined as the average energy cost (\$/megawatt-hour), including foregone sales, incurred by Metropolitan for the incremental amount of water for the month that the water was delivered multiplied by 2.38 (includes pumping costs, loss of Metropolitan's share of energy generated at Parker Dam Power Plant, and loss of Southern California Edison Company Benefit Energy)(\$/acre-foot). ^b (This charge may be eliminated for certain deliveries under terms of an agreement that may be entered into between Mexico, the United States Commissioner, and Metropolitan pursuant to Section 12(g) of this Agreement, under which Mexico would provide energy for the transportation of water through Metropolitan's facilities.)	\$197.00
16. Total payment to Metropolitan ((Line 13 x Line 14) + (Line 13 x Line 15))	\$129,810.60
17. Total Charge to Mexico (Line 5 + Line 10 + Line 16)	\$161,707.06

^a Portion of Treaty Water diverted by Metropolitan at Lake Havasu.

^b Energy rate provided via e-mail by Harry Ruzgerian (Metropolitan Water District of Southern California) on October 5, 2005