

## The City of Yuma Part 417 Consultation Questionnaire

The 43 Code of Federal Regulations Part 417 (Part 417) obligates the Secretary of the Interior to ensure releases of Colorado River water to each contractor will not exceed those reasonably required for beneficial use. Every year, contractors are asked to submit to the Bureau of Reclamation their annual diversion estimates, monthly diversion schedules, and water requirements for the following year. In addition, Reclamation is directed by Part 417 to consult with Colorado River water service contractors each year regarding water conservation measures, operating practices, and the beneficial use of Colorado River water.

For calendar year 2009, the Part 417 consultation is being supplemented through the collection of written information. This information, along with other relevant materials, is analyzed and the Regional Director's determination of the approved diversion amount communicated in writing to the contractor. Part 417 establishes procedures under which the City of Yuma (City) may request modification of the determination, or later appeal it to the Secretary of the Interior. Please review this Part 417 Consultation Questionnaire and reply to the listed topics.

**Diversion Request:** Provided in Table 1 is an historic review of the City's demands for Colorado River water since calendar year 2005. Past water use is one factor that may be used in determining water requirements for the City.

Table 1. Colorado River diversions for the City

Year	Diversion (Acre-feet)
2008 projected <sup>1</sup>	27,456
2007	25,239
2006	26,783
2005	27,813
Average	26,823

**Part 417 Factors:** Part 417.3 prescribes a list of factors to be examined by Reclamation in approving a City's annual water order. Reclamation consults annually with the Colorado River contractors on the Part 417.3 factors. On November 16, 2007, Reclamation staff met with City Staff and discussed each factor. The City's responses are noted on the Consultation Questionnaire.

Reclamation requests an update of this information and any such additional written information the City desires to submit to support its request for 2009 diversions. Please note that the implementation of water conservation measures may also effect water requirements.

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REPLY DATE		
DATE	INITIALS	CODE
9/19	Rmt	4200
		4222
9/23	Rmt	4226
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<sup>1</sup> 2008 projected diversion amount as of July 21, 2008.

**Water Conservation Planning:** To meet the water needs of its customers, the City annually implements measures to improve the management of its water supply and. Many of those measures are included in the City's water conservation plan. During 2008, several water management activities were implemented and noted in the Consultation Questionnaire. Which activities has the City implemented in 2008 that could impact your water order for 2009? Some activities do not impact the water order, but are necessary to update the City's water conservation plan. Those activities may be noted along with each Part 417 factor's reply on the Consultation Questionnaire.

Please respond to each item in the Consultation Questionnaire. The City may return this form to Reclamation, or provide the requested information in a format of its choice, provided the format addresses each factor. This written consultation form, along with any other material considered to be relevant, will be used to determine the City's approved diversion for calendar year 2009.

Part 417.3 Factors	2008 Reply	2009 Reply (Written)
Area <sup>2</sup>	1,100 new connections	Enclosure
Climatic Conditions <sup>3</sup>	No change drought continues	
Location <sup>4</sup>	Deferred 1-2-2M gal tank. No new tanks planned	
Kinds of Customers <sup>5</sup>	Project 29,000 total	
Water Use Practices <sup>6</sup>	Anticipate reduction in GPC rate increase 1-1-08 (encl)	
Condition of Water Carriage & Distribution Facilities/System Efficiency <sup>7</sup>	No changes	
Record of Water Orders <sup>8</sup>	No problems	
Record of Rejections of Water Orders <sup>9</sup>	No problems	

<sup>2</sup> Will the City add or reduce the number of connections in its contract area for 2009; if so how many?

<sup>3</sup> List weather stations used, annual mean temperature, and annual mean rainfall.

<sup>4</sup> Have there been any changes in the location of district facilities (e.g. storage, treatment, pipelines, etc...)?

<sup>5</sup> List changes in customer types (e.g. single family, multifamily, commercial, etc...).

<sup>6</sup> Identify projected changes to customer practices (e.g. irrigate turf, golf courses, fountains, etc...) and the expected impact on water use.

<sup>7</sup> What is the condition of the system? Amount of water delivered/sold to customers in acre feet?

<sup>8</sup> Does the City amend daily water orders with Reclamation more than three times a month?

<sup>9</sup> Have water orders from customers been rejected by the City (e.g. for non-payment, etc...) that would impact its water order?

Part 417.3 Factors	2008 Reply	2009 Reply (Written)
General Operating Practices/Policies <sup>10</sup>	Tiered rates. New water restrictions in place	Enclosure
Operating Efficiencies <sup>11</sup>	Anticipating +/- 10% reduction-rate increase	
Amount and Rate of Return Flow to the River <sup>12</sup>	40%	
Municipal Water Requirements <sup>13</sup>	N/A	
Amount of Water Sold/Delivered to Customers <sup>14</sup>	<= Same, City's Agua Viva facility pulling ground water until construction on 3 <sup>rd</sup> phase is complete (24mgd) and facility begins treating surface water. Avg. groundwater/day is 4M gallons	
Provisions of Users Water Delivery Contract <sup>15</sup>	Delivery points to change	
Water Rates <sup>16</sup>	Rate increase 1-1-2008	
Water Conservation <sup>17</sup>	Drought continues, \$350K spent on automated read	
Other Relevant Factors <sup>18</sup>	None	

<sup>10</sup> Has there been any change in operating practices or policies? If so, attach the new policy.

<sup>11</sup> Gallons per Capita per Day (GPCD).

<sup>12</sup> Amount (cfs) and average rate (ft/sec) of return flow to the river.

<sup>13</sup> How much water is going to municipal uses and how much water is going to industrial uses, each in acre feet?

<sup>14</sup> Amount of water delivered/sold to customers in acre feet.

<sup>15</sup> Have there been any changes in the water service contract?

<sup>16</sup> Have there been any changes in water rates? If so, submit the changed rates.

<sup>17</sup> How much money will be spent by the City on water conservation for 2009?

<sup>18</sup> Optional, please identify any other relevant factor/factors and explain why it would impact the City's water order.

WATER CONSERVATION PLAN IMPLEMENTATION<sup>19</sup>

2008 Activity

- 1. Last of 2 scheduled rate increases occurred January 1, 2008
- 2. - (Copy of Resolution 2006-71 included)
- 3. Automated Meter Reading implementation continues (25%)
- 4. - \$365K will be spent again in 2009
- 5.
- 6.
- 7.

OTHER<sup>20</sup>

Name

Jerry C. Bae Utilities Director 9/18/2008  
 Signature Date

<sup>19</sup> Water conservation activities/measures/practices the City implemented in 2008.

<sup>20</sup> Other relevant materials to submit (e.g. new water conservation plan, transfers, water price sheet, etc...).

Part 417.3 Factors	2008 Reply	2009 Reply
Area <sup>2</sup>	1,1000 new connections	
Climatic Conditions <sup>3</sup>	No change drought continues	Drought Report August 2008 Short term - the water shed is upgraded to normal Long term- the water shed is upgraded to abnormally dry
Location <sup>4</sup>	Deferred 1-2-2M gal tank. No new tanks planned	No change; no additions
Kinds of Customers <sup>5</sup>	Project 29,000 total	28,319 actual, Project 29,000
Water Use Practices <sup>6</sup>	Anticipate reduction in GPC; rate increase 1-1-08 (encl)	Reduction in consumption due to rate increase 1-1-08
Condition of Water Carriage & Distribution Facilities/ System Efficiency <sup>7</sup>	No changes	8.15 Billion Gallons Delivered
Record of Water Orders <sup>8</sup>	No problems	No problems; no changes
Record of Rejections of Water Orders <sup>9</sup>	No problems	No problems
General Operating Practice/Policies <sup>10</sup>	Tiered rates. New water restrictions in place	No change; tiered rates continue
Operating efficiencies <sup>11</sup>	250GPD	95% (238GPD)
Amount and Rate of Return Flow to the River <sup>12</sup>	East Mesa 38%	8.025 MGD
Municipal Water Requirements <sup>13</sup>	N/A	N/A
Amount of Water Sold/ Delivered to Customers <sup>14</sup>	Same, City's Agua Viva facility pulling ground water until construction on 3 <sup>rd</sup> phase is complete (24 mgd) and facility begin treating surface water. Avg. groundwater/day is 4 M gallons	8.15 Billion Gallons Delivered
Provisions of Users Water Delivery Contract <sup>15</sup>	Delivery Points to change	Amendatory contract and exhibits under review
Water Rates <sup>16</sup>	Rate Increase 1-1-2008	No change
Water Conservation <sup>17</sup>	Drought continues, \$350K spent on automated read	Drought status slightly improved, \$365k spent on automated read
Other Relevant Factors <sup>18</sup>	None	None

The footnotes

- 2 Will the City add or reduce the number of connections in its contract area for 2009; if so how many?
- 3 List weather stations used, annual mean temperature, and annual mean rainfall
- 4 Have there been any changes in the location of district facilities (e.g. storage, treatment, pipelines, etc...)?
- 5 List changes in customer types (e.g. single family, multifamily, commercial, etc...).
- 6 Identify projected changes to customer practices (e.g. irrigate turf, golf courses, fountains, etc...) and the expected impact on water use.
- 7 What is the condition of the system? Amount of water delivered/sold to customers in acre feet?
- 8 Does the City amend daily water orders with Reclamation more than three times a month?
- 9 Have water orders from customers been rejected by the City (e.g. for non-payment, etc...) that would impact its water order?
- 10 Has there been any change in operating practices or policies? If so, attach the new policy.
- 11 Gallons per Capita per day (GPCD)
- 12 Amount (cfs) and average rate (ft/sec) of return flow to the river.
- 13 How much water is going to municipal uses and how much water is going to industrial uses, each in acre feet?
- 14 Amount of water delivered/sold to customers in acre feet.
- 15 Have there been any changes in the water service contract?
- 16 Have there been any changes in water rates? If so, submit the changed rates.
- 17 How much money will be spent by the City on water conservation for 2009?
- 18 Optional, please identify any other relevant factor/factors and explain why it would impact

<b>Total Projected Monthly Diversion</b>				
<b>2009</b>				
<b>Month</b>	<b>MG per month</b>	<b>Growth Factor added</b>	<b>USBR Factor added</b>	<b>AF</b>
<b>Jan</b>	<b>628.20</b>	<b>659.61</b>	<b>857.49</b>	<b>2,631.55</b>
<b>Feb</b>	<b>605.20</b>	<b>635.46</b>	<b>826.10</b>	<b>2,535.20</b>
<b>Mar</b>	<b>656.00</b>	<b>688.80</b>	<b>895.44</b>	<b>2,748.00</b>
<b>Apr</b>	<b>607.70</b>	<b>638.09</b>	<b>829.51</b>	<b>2,545.67</b>
<b>May</b>	<b>714.50</b>	<b>750.23</b>	<b>975.29</b>	<b>2,993.06</b>
<b>Jun</b>	<b>906.70</b>	<b>952.04</b>	<b>1,237.65</b>	<b>3,798.19</b>
<b>Jul</b>	<b>950.44</b>	<b>997.96</b>	<b>1,297.35</b>	<b>3,981.42</b>
<b>Aug</b>	<b>877.00</b>	<b>920.85</b>	<b>1,197.11</b>	<b>3,673.78</b>
<b>Sep</b>	<b>697.81</b>	<b>732.70</b>	<b>952.51</b>	<b>2,923.15</b>
<b>Oct</b>	<b>681.20</b>	<b>715.26</b>	<b>929.84</b>	<b>2,853.58</b>
<b>Nov</b>	<b>629.69</b>	<b>661.17</b>	<b>859.53</b>	<b>2,637.79</b>
<b>Dec</b>	<b>628.71</b>	<b>660.14</b>	<b>858.18</b>	<b>2,633.67</b>
<b>Total</b>	<b>8,583.15</b>	<b>9,012.31</b>	<b>11,716.00</b>	<b>35,955.08</b>

<b>Monthly Water Projections for 2009</b>	
<b>Month</b>	<b>MG per month</b>
<b>Jan</b>	<b>857.49</b>
<b>Feb</b>	<b>826.10</b>
<b>Mar</b>	<b>895.44</b>
<b>Apr</b>	<b>829.51</b>
<b>May</b>	<b>975.29</b>
<b>Jun</b>	<b>1,237.65</b>
<b>Jul</b>	<b>1,297.35</b>
<b>Aug</b>	<b>1,197.11</b>
<b>Sep</b>	<b>952.51</b>
<b>Oct</b>	<b>929.84</b>
<b>Nov</b>	<b>859.53</b>
<b>Dec</b>	<b>858.18</b>
<b>Total</b>	<b>11,716.00</b>

Projected Returns to the Colorado								
Figueroa WPCF			East Wetlands			Total Projected Monthly Returns		
2009			2009			2009		
Month	MG per month	AF	Month	MG per month	AF	Month	MG per month	AF
Jan	242,330,550	744	Jan	6,427,050	20	Jan	248,757,600	763
Feb	232,794,450	714	Feb	15,867,915	49	Feb	248,662,365	763
Mar	237,536,250	729	Mar	11,613,000	36	Mar	249,149,250	765
Apr	214,499,250	658	Apr	15,692,250	48	Apr	230,191,500	706
May	220,479,000	677	May	15,928,500	49	May	236,407,500	726
Jun	213,993,150	657	Jun	17,955,000	55	Jun	231,948,150	712
Jul	220,125,150	676	Jul	16,600,500	51	Jul	236,725,650	726
Aug	228,004,350	700	Aug	14,540,400	45	Aug	242,544,750	744
Sep	230,886,465	709	Sep	15,867,915	49	Sep	246,754,380	757
Oct	234,972,288	721	Oct	15,867,915	49	Oct	250,840,203	770
Nov	232,922,084	715	Nov	15,867,915	49	Nov	248,789,999	764
Dec	242,677,219	745	Dec	15,867,915	49	Dec	258,545,134	793
<b>Total</b>	<b>2,751,220,207</b>	<b>8,443</b>	<b>Total</b>	<b>178,096,275</b>	<b>547</b>	<b>Total</b>	<b>2,929,316,482</b>	<b>8,990</b>

**Average Daily Return to the Colorado = 8.025 MGD**