

## Purchasing Division

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**October 10, 2016**

### **ADDENDUM #1**

**BID No. PW-17-05 – Antiscalant & Delivery**  
**Scheduled Bid Closing Date: October 25, 2016**

To All Bidders of Record:

Acknowledge receipt of this addendum by attaching a signed copy of this addendum with your bid. Failure to do so may subject bidder to disqualification. Revisions/clarifications to the bid specifications and documents are as follows:

### **Questions & Answers:**

- Could you please explain why products containing “dendrimers” are specifically excluded from this bid? This is a very specific exclusion considering the definition is “a synthetic polymer with a branching, tree like structure.” If there is no practical reason they are excluded, we would like to request the “no dendrimer” clause be removed. (Found of Pages C-3 and C-5)

**Question for Desalter only; No changes for AWPF. For water facilities: Dendrimers are a pharmaceutical polymer (coagulant) that create colloidal particles that will decrease the performance of RO membranes in wastewater and salt water or brackish water. This would reduce the life of the membranes and require more frequent CIP and operational costs.**

**It is for this reason that we would prefer not to have dendrimers in our RO process.**

- The delivery vehicle requirements state the vehicles shall be operated by the supplier, does this exclude subcontracting the delivery to a qualified chemical delivery company? (Found on Page C-1, Section C)

**AWPF: Suppliers are responsible for chemical deliveries. Suppliers shall meet all State and Federal regulations. For Water facilities: This should not be an issue if subcontracted deliveries occur in water operations. We should include**

**that delivery vehicles may be required to be operated by the supplier. In the event that we had an issue with the delivery service or with the manifest.**

- Would it be possible to get more detail on the requirements for the “Training” clause for both facilities? The wording is very vague and does not limit the time that could be required for this training. (Found on Pages C-4 and C-5)

**AWPF: Each shall provide training after each chemical dosage adjustment. For water facilities: The training will shall cover classroom and hands on training encompassing proper membrane CIP, membrane performance, evaluation, inspection and replacement. Supplier will also provide normalization data management and input training.**

- We would be happy to support the set-up of a normalization program, but would data input into the normalization program fall under the reasonability of the supplier or the City? (Found on Pages C-4 and C-5)

**AWPF: Suppliers will work with City staff to incorporate data from City's control system into the normalization program. For Water facilities: Staff should be responsible for the normalization data entry and the supplier will be supporting the process. This will be included in the training requirements as well.**

- We would like to request an addendum to the experience clause for both plants with wording similar to the following “**Experience** -- The supplier must provide proof of experience supplying municipalities for at least five years. The reference facilities shall be a U.S. municipal reverse osmosis facility for water or wastewater treatment, and be identified on the proposal form with contact information.” The current wording excludes the ability for us to bid newer antiscalant chemistries that were specifically developed for municipal reuse feed waters. Given the rapid increase of RO facilities operating on municipal reuse water, new antiscalant chemistries were developed to better suit constituents that are not common in more conventional RO feed waters (such as phosphorous, high silica, and high organics/bio).

**AWPF: No changes to the bid document. For Water facilities: Some suppliers may have only performed pilot testing. No changes to the bid document.**

- Could you please confirm the average delivery for the Water campus would be 300 Gallons (3,500 gal. over 12 deliveries), and the average delivery for the AWPF would be 2,400 gallons (9,600 gal. over 4 deliveries).

**AWPF: No changes. For Water facilities: Until there is expansion at the Water Campus I would not expect for there to be change.**

- The suppliers will need water analysis of the water to be treated at both of these locations. That would include all cations, anions, suspended solids (TSS).

**For Water, the Total Suspended Solids are <5 mg/L and the water analysis for the three well at the water facility are attached.**

**For the AWPF:**

<b>Parameter</b>	<b>MF Filtrate before Chemical Additions</b>
<b>Chloride</b>	<b>620</b>
<b>Nitrate as N</b>	<b>0.46</b>
<b>Nitrite as N</b>	<b>0.66</b>
<b>Orthophosphate as P</b>	<b>0.74</b>
<b>Sulfate</b>	<b>490</b>
<b>Alkalinity</b>	<b>370</b>
<b>pH</b>	<b>7.3</b>
<b>Ammonia as N</b>	<b>30.4</b>
<b>Calcium</b>	<b>162</b>
<b>Magnesium</b>	<b>71.2</b>
<b>Sodium</b>	<b>443</b>
<b>Potassium</b>	<b>28.2</b>
<b>Total Suspended Solids</b>	<b>&lt;5</b>

**All expressed in mg/L Except pH in pH Units**

**All samples were collected grab on 9/29/2016 @ 1030**

- Is there any pretreatment prior to the ROs? What is the pretreatment at each site?

**The only pretreatment at the water facility is 5 micron cartridge filters.**

**The Advanced Water Purification Facility (AWPF) does have pretreatment prior to the RO. The secondary Effluent from the Oxnard Wastewater Treatment Plant (OWTP) is treated by Microfiltration (MF).**

- What is the flow rates through each plant, RO feed, in gpm, or gallons per day?

**For the water facility, we have three trains and each is 2.5 million gallons a day. We currently run one train, but this may change due to operational circumstances.**

**There are 2 trains with 3 stages each at the AWPF. The RO feed to each train is 2555 gpm.**

- What is the operating schedule at each facility 24/7 or less? If less is how many hours per week is each facility in operation?

**The water facility runs it's RO 24/7.**

**Yes, the AWPf is on line 24/7. We plan to operate one train 24/7. We plan to operate the second train 60 to 80 hours per week.**

- Is the Advanced Water Purification Plant in service? If not when is the expected start-up date?

**The AWPf has been online for one month now.**

- What equipment is needed to be supplied in this bid?

**a. Storage Tanks? None for Water or the AWPf.**

**b. Metering pumps? None for Water or the AWPf.**

- What is the storage tank capacity for Antiscalants at each site?

**1,600 gallons for the water facility.**

**The storage tank at the AWPf is 4,100 gallons.**

- Will you please tell me what the typical delivery volume is for the antiscalant to both the Water Campus, and Advanced Water Purification Facility?

**AWPF Antiscalant storage tank holds 4100 gallons. Maximum load we take is 3600 gallons. Typical load could be 3100.**

**The water campus receives 900 gallons per delivery and the max volume that the receiving tank holds is 1600 gallons.**

- Also, will you please identify the current supplier, and current price of the antiscalant being used?

**King Lee is the current provider and the current price is \$7.98/gal for the AWPf and \$6.64/gal for water.**

- Could you send me the previous bid tab for Oxnard's current "Antiscalant & Delivery" bid?

**Please see attached bid results.**

Addendum #1 received: Date \_\_\_\_\_

Received by: \_\_\_\_\_

Name & Title, printed: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone Number, including Area Code: \_\_\_\_\_

Fax Number, including Area Code: \_\_\_\_\_