MAG 208 AMENDMENT
TOWN OF BUCKEYE
PALO VERDE ROAD WWTP

ARIZONA POLLUTANT DISCHARGE
ELIMINATION SYSTEM PERMIT
DISCHARGE TO ROOSEVELT
IRRIGATION DISTRICT CANAL

Maricopa County, Arizona

Prepared for:
Town of Buckeye

KJ Project No. 049039
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I  Maps (Figures)
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Section 1: Executive Summary

Section 208 (a)(2)(B) of the Clean Water Act requires that wastewater treatment and disposal be planned regionally with plans approved by the applicable Designated Planning Agency. The Designated Planning Agency for all of Maricopa County is the Maricopa Association of Governments (MAG). The purpose of this application is to request an amendment to the existing MAG 208 Water Quality Management Plan (MAG 208 Plan) to accommodate an additional Arizona Pollutant Discharge Elimination System Permit (AZPDES) discharge from the Town of Buckeye Palo Verde Road Wastewater Treatment Plant (WWTP) already incorporated into the MAG 208 Plan through an amendment approved by the MAG Regional Council on February 23, 2005.

1.1 Disposal and Reuse Sites

The "method of effluent disposal and reuse sites" described in the checklist in the 208 Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005, read as follows:

"Effluent from the Palo Verde Road WWTP will be disposed of in four manners:

1. direct reuse for irrigation of green areas
2. recharge of groundwater through means of recharge basins or wells
3. reuse for irrigation in the Buckeye Water Conservation and Drainage District Canal (BID), and
4. discharge to the Hassayampa River."

This application requests that the 208 plan be further amended to include a fifth method of effluent disposal:

5. reuse for irrigation in the Roosevelt Irrigation District (RID) Canal, through discharge into the canal where it intersects Palo Verde Road (AZPDES Permit Required).

Item No. 10 on the checklist has been amended accordingly.

This amendment acknowledges that an effluent pipeline will be constructed running north from the WWTP within the Palo Verde Road right of way to the RID Canal (Figure 2 in Exhibit I). The AZPDES discharges proposed under the original amendment (to Hassayampa River and to RID Canal) remain. The plan to recharge groundwater on the property along the Hassayampa River and at the plant site is proceeding with permit applications for the recharge in preparation and planned to be submitted to the Arizona Department of Water Resources (ADWR) in December, 2005.
This additional AZPDES discharge will maximize the reuse capabilities of the effluent distribution system by providing transport through a second canal, increasing the number of potential reuse sites and creating an alternative conveyance in periods when the Buckeye Irrigation District (BID) Canal is not available to receive effluent. Effluent discharge to the RID Canal, just as with discharge to the BID canal, is most likely to occur in winter months in periods of heavy rainfall when the recharge basins are unable to recharge all effluent generated. Because availability of the RID Canal to receive effluent will be largely weather-dependent, the scheduling or frequency of discharges there will be on an "as-needed" and "as-available" basis.

1.2 Revised Checklist and Maps

The only item modified from the 208 Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005, is the addition of the AZPDES Permit discharge to the RID Canal. The 208 Amendment Checklist is included here. Information has been provided only for the item that is changing. A Vicinity Map has been included (Figure 1 of Exhibit I) as well as a 208 Amendment Map (Figure 2 of Exhibit I) which shows the WWTP location and all of the planned discharge conveyances.

1.3 Design and Permitting Progress

The planned design of the Palo Verde Road WWTP has not changed since the MAG 208 plan was amended to include that facility. An Aquifer Protection Permit (APP) was submitted to the Arizona Department of Environmental Quality (ADEQ) on 25 April, 2005 and remains under review at this time. An AZPDES permit application for Palo Verde Road WWTP, including planned discharges to RID and BID canals and the Hassayampa River, will be submitted to ADEQ in December 2005. Permit applications for recharge facilities will also be submitted to ADWR in December 2005.
Section 2: 208 Amendment Checklist

The following pages present the 208 Amendment Checklist with entries that describe the proposed changes to the 208 Amendment for the Town of Buckeye Palo Verde Road WWTP which was approved by the MAG Regional Council on February 23, 2005.
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<tr>
<td>1</td>
<td>AUTHORITY</td>
<td>Proposed Designated Management Agency (DMA) shall self-certify that it has the authorities required by Section 208(c)(2) of the Clean Water Act to implement the plan for its proposed planning and service areas. Self-certification shall be in the form of a legal opinion by the DMA or entity attorney.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
</tr>
<tr>
<td>2</td>
<td>20-YEAR NEEDS</td>
<td>Clearly describe the existing wastewater treatment (WWT) facilities: -Describe existing WWT facilities.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
</tr>
<tr>
<td>3</td>
<td>Show WWT certified and service areas for private utilities and sanitary district boundaries if appropriate.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<td>4</td>
<td>Clearly describe alternatives and the recommended WWT plan: -Provide POPTAC population estimates (or COG-approved estimates only where POPTAC not available) over 20-year period.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>5</td>
<td>Provide wastewater flow estimates over the 20-year planning period.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>6</td>
<td>Illustrate the WWT planning and service areas.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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# 208 AMENDMENT CHECKLIST

**Section 208 Clean Water Act**  
40 CFR Part 130.8

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<tr>
<td>7</td>
<td>Describe the type and capacity of the recommended WWT Plant.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>8</td>
<td>Identify water quality problems, consider alternative control measures, and recommend solution for implementation.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>9</td>
<td>If private WWT utilities with certificated areas are within the proposed regional service area; define who (municipal or private utility) serves what area and when. Identify whose sewer lines can be approved in what areas and when?</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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</table>
| 10       | Describe method of effluent disposal and reuse sites (if appropriate). | **Additional discharge:**  
5. reuse for irrigation in the Roosevelt Irrigation District’s (RID’s) Canal, through discharge into the canal where it intersects Palo Verde Road (AZPDES Permit Required). | **Exhibit I** |
<p>| 11       | If Sanitary Districts are within a proposed planning or service area, describe who serves the Sanitary Districts and when. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. |                  |
| 12       | Describe ownership of land proposed for plant sites and reuse areas. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. |                  |
| 13       | Address time frames in the development of the treatment works. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. |                  |</p>
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<td>14</td>
<td>Address financial constraints in the development of the treatment works.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>15</td>
<td>Describe how discharges will comply with EPA municipal and industrial stormwater discharge regulations (Section 405, CWA).</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>16</td>
<td>Describe how open areas &amp; recreational opportunities will result from improved water quality and how those will be used.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>17</td>
<td>Describe potential use of lands associated with treatment works and increased access to water-based recreation, if applicable.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>18</td>
<td><strong>REGULATIONS</strong></td>
<td><strong>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</strong></td>
<td></td>
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<tr>
<td>19</td>
<td>Describe types of permits needed, including NPDES, APP and reuse.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>20</td>
<td>Describe restrictions on NPDES permits, if needed, for discharge and sludge disposal.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Provide documentation of communication with ADEQ Permitting Section 30 to 60 days prior to public hearing regarding the need for specific permits.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>22</td>
<td>Describe pretreatment requirements and method of adherence to requirements (Section 208 (b)(2)(D), CWA).</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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### 208 AMENDMENT CHECKLIST

#### Section 208 Clean Water Act
40 CFR Part 130.6

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<tr>
<td>22</td>
<td>Identify, if appropriate, specific pollutants that will be produced from excavations and procedures that will protect ground and surface water quality (Section 208(5)(2)(K) and Section 304, CWA).</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>23</td>
<td>Describe alternatives and recommendation in the disposition of sludge generated. (Section 405 CWA).</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>24</td>
<td>Define any nonpoint issues related to the proposed facility and outline procedures to control them.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>25</td>
<td>Describe process to handle all mining runoff, orphan sites and underground pollutants, if applicable.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>26</td>
<td>If mining related, define where collection of pollutants has occurred, and what procedures are going to be initiated to contain contaminated areas.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>27</td>
<td>If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>28</td>
<td>CONSTRUCTION</td>
<td>Define construction priorities and time schedules for initiation and completion.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<td>29</td>
<td>Identify agencies who will construct, operate and maintain the facilities and otherwise carry out the plan.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>30</td>
<td>Construction will follow non-point source requirements to control erosion. There are no non-point issues related to this project that are expected.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>31</td>
<td>FINANCING AND OTHER MEASURES NECESSARY TO CARRY OUT THE PLAN</td>
<td>If plan proposes to take over certificated private utility, describe how, when and financing will be managed.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<td>32</td>
<td>Describe any significant measure necessary to carry out the plan, e.g., institutional, financial, economic, etc.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>33</td>
<td>Describe proposed method(s) of community financing.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Provide financial information to assure DMA has financial capability to operate and maintain wastewater system over its useful life.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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## 208 AMENDMENT CHECKLIST

**Section 208 Clean Water Act**  
40 CFR Part 130.6

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<td>35</td>
<td>Provide a time line outlining period of time necessary for carrying out plan implementation.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>36</td>
<td>Provide financial information indicating the method and measures necessary to achieve project financing. (Section 201 CWA or Section 604 may apply.)</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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</table>
| 37 IMPLEMENTABILITY | Describe impacts and implementability of Plan:  
- Describe impacts on existing wastewater (WW) facilities, e.g., Sanitary district, infrastructure/facilities and certificated areas. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. | |
<p>| 38       | Describe how and when existing package plants will be connected to a regional system. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. | |
| 39       | Describe the impact on communities and businesses affected by the plan. | Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. | |
| 40       | If a municipal wastewater (WWT) system is proposed, describe how WWT service will be provided until the municipal system is completed: i.e., will package plants and septic systems be allowed and under what circumstances. (Interim services). | Please refer to the NAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005. | |</p>
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<td>41</td>
<td><strong>PUBLIC PARTICIPATION</strong></td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>42</td>
<td>List location where documents are available for review at least 30 days before public hearing.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
<td></td>
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<tr>
<td>43</td>
<td>Submit copy of the public notice of the public hearing as well as an official affidavit of publication from the area newspaper. Clearly show the announcement appeared in the newspaper at least 45 days before the hearing.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>44</td>
<td>Submit affidavit of publication for official newspaper publication.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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<tr>
<td>45</td>
<td>Submit responsiveness summary for public hearing.</td>
<td>Please refer to the MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.</td>
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Section 3: Letters of Support

Included with this report are formal expressions of support for amending the MAG 208 Plan to include an AZPDES Permit discharge from the Town of Buckeye’s Palo Verde Road WWTP to the Roosevelt Irrigation District Canal.

3.1 Town of Buckeye
Included in Exhibit II.

3.2 Maricopa County Environmental Services Department
Included in Exhibit II.
This map presents the central portion of the Maricopa Association of Governments (MAG) "Municipal Planning Areas and Incorporated Areas" map obtained from MAG's website 12/1/03. The following details have been added to the original MAG map within the Buckeye Planning Area:
Road names, stream names, Palo Verde Rd. WWTP location and locations of proposed discharges from same WWTP.

Figure 3
December 1, 2005

Julie Hoffman, Environmental Program Coordinator
Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

Subject: MAG 208 Amendment - Buckeye, Arizona

Dear Ms. Bauer:

The Town of Buckeye is submitting a 208 Amendment for the Buckeye Planning Area. In accordance with the MAG 208 Water Quality Management Plan, we are officially requesting that you initiate the amendment process to consider allowing the planned Palo Verde Road Wastewater Treatment Plant to include the Roosevelt Irrigation District (RID) Canal in its permitted discharges. The AZPDES permit application being submitted to ADEQ in November 2005 includes this discharge.

We look forward to working with you and appreciate your assistance to facilitate the MAG approval process for this 208 Amendment.

Sincerely,

[Signature]

Carroll Reynolds, P.E.
Town Manager

cc:
Ms. Lindy Bauer, Environmental Director MAG
Joan Searbrough, Centex Homes
C. Lucky Roberts, Town of Buckeye
December 2, 2005

Maricopa Association of Governments
302 North 1st Avenue, Suite 900
Phoenix, AZ 85003

Attention: Ms. Lindy Bauer, Environmental Program Coordinator

Re: Town of Buckeye, Palo Verde Road WWTP, Discharge of Reclaimed Water to Roosevelt Irrigation District Canal

Clean Water Act, MAG 208 Amendment

Dear Ms. Bauer,

In a letter dated 28 November 2005, Kennedy/Jeans Consultants submitted a proposed 208 Amendment for a revision to the existing 208 Plan of the P/RWWTP to include an additional discharge to the Roosevelt Irrigation District Canal. The amendment does not propose any additional wastewater treatment facilities or change any service areas. The new facilities will include a force main from the WWTP north along Palo Verde Road to the Roosevelt Canal.

The document was submitted to the Department because it is located within three miles of unincorporated areas of Maricopa County. The facility is located within the Buckeye Municipal Planning Area.

Based on a review of the proposed 208 MAG 208 Amendment dated 28 November 2005, the Department has determined that the proposed modification is acceptable and complies with the MAG 208 Review and Approval Process under the MAG 248 Area Wide Water Quality Management Plan. The proposed additional discharge point is not in conflict with Maricopa County plans for the area.

Please note that the Department has not reviewed, nor approved, the design of the facilities included in the project as part of the 208 review. Any technical issues that remain will need to be resolved during the design phase of the project. Approval to Construct (ATC) and Approval of Construction (AOC) must be obtained from this Department prior to start of construction and startup, respectively, of all treatment, discharge, recharge, and reuse facilities, including all conveyance facilities and final end user facilities.

If you have any questions or comments, please feel free to contact Mr. Kenneth James, PE, or myself at 506-6666.

Sincerely,

Dale Poliya, P.E.
Acting Manager, Water and Waste Management Division

cc: Fred Goldman, PE, Kennedy/Jeans, 3101 North Central Ave., Suite 1470, Phoenix, AZ 85012
    Carroll Reynolds, PE, Town Manager, Town of Buckeye, 100 N. Apache, Buckeye, AZ 85326
TOM BIANCO, being first duly sworn, upon oath deposes and says: That he is the advertising manager of the Arizona Business Gazette, a newspaper of general circulation in the county of Maricopa, State of Arizona, published at Phoenix, Arizona, by Phoenix Newspapers Inc., which also publishes The Arizona Republic, a newspaper of general circulation in the State of Arizona, and that the copy hereto attached is a true copy of the advertisement published in the said paper, named below, on the dates as indicated below:

The Arizona Republic

December 24, 2005

Sworn to before me this 27th day of December A.D. 2005

[Signature]

Notary Public
December 27, 2005

TO: Interested Parties for Water Quality

FROM: Julie Hoffman, Environmental Planner

SUBJECT: PUBLIC HEARING ON THE DRAFT MAG 208 WATER QUALITY MANAGEMENT PLAN AMENDMENTS FOR THE TOWN OF BUCKEYE TRILITIUM WEST WASTEWATER TREATMENT FACILITY AND TOWN OF BUCKEYE PALO VERDE ROAD WASTEWATER TREATMENT PLANT ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT DISCHARGE TO THE ROOSEVELT IRRIGATION DISTRICT CANAL.

Public Hearing

February 7, 2006 at 2:00 p.m.

MAG Office, Saguaro Room
302 North 1st Avenue, Second Floor

Phoenix, Arizona 85003

The Maricopa Association of Governments (MAG) will conduct a public hearing on the Draft MAG 208 Water Quality Management Plan Amendments for the Town of Buckeye Trilium West Wastewater Treatment Facility and Town of Buckeye Palo Verde Road Wastewater Treatment Plant Arizona Pollutant Discharge Elimination System (AZPDES) Permit Discharge to the Roosevelt Irrigation District Canal. The purpose of the hearing is to receive public comments on the draft plan amendments.

The proposed Trilium West Wastewater Treatment Facility would have an ultimate capacity of 11 million gallons per day (mgd) and would be located in the southwest quarter of Section 24 of Township 3 North, Range 5 West. Reclaimed water would be disposed of through reuse, recharge, and an AZPDES Permit discharge to the Hassayampa River or the Wmger Wash.

The Palo Verde Road Wastewater Treatment Plant is identified in the current MAG 208 Plan with an ultimate capacity of 10.2 mgd and reclaimed water being disposed of through reuse, recharge, and AZPDES Permit discharges to the Buckeye Water Conservation and Drainage District Canal for reuse and the Hassayampa River. This amendment would identify an additional AZPDES Permit discharge for the Palo Verde Road Wastewater Treatment Plant to accommodate future effluent discharges into the Roosevelt Irrigation District Canal for reuse.

For your information and convenience, a copy of the public hearing notice is enclosed. The draft documents are available for public review at the MAG Office, third floor from 8:00 a.m. to 5:00 p.m. Monday through Friday. Copies are also available for review at the Glendale Public Library, 5959 West Bannister Street; City of Mesa Library, 64 East First Street; and Phoenix Central Library, 1221 North Central Avenue. For further information or to submit written comments on the draft amendments prior to the hearing, please contact me at (602) 254-6300.
The Maricopa Association of Governments (MAG) will conduct a public hearing on the Draft MAG 208 Plan Amendments for the Town of Buckeye Trillium West Wastewater Treatment Facility and the Town of Buckeye Palo Verde Road Wastewater Treatment Plant Arizona Pollutant Discharge Elimination System (AZPDES) Permit Discharge to the Roosevelt Irrigation District Canal. The purpose of the hearing is to receive public comments on the draft amendments.

The proposed Trillium West Wastewater Treatment Facility would have an ultimate capacity of 11 million gallons per day (mgd) and would be located in the southwest quarter of Section 24 of Township 3 North, Range 5 West. Reclaimed water would be disposed of through reuse, recharge, and an AZPDES Permit discharge to the Hassayampa River or the Wagner Wash.

The Palo Verde Road Wastewater Treatment Plant is identified in the current MAG 208 Plan with an ultimate capacity of 10.2 mgd and reclaimed water being disposed of through reuse, recharge, and AZPDES Permit discharges to the Buckeye Water Conservation and Drainage District Canal for reuse and the Hassayampa River. This amendment would identify an additional AZPDES Permit discharge for the Palo Verde Road Wastewater Treatment Plant to accommodate future effluent discharges into the Roosevelt Irrigation District Canal for reuse.

Following consideration of comments received, it is anticipated that the MAG Water Quality Advisory Committee will make a recommendation to the MAG Management Committee. On February 8, 2006, the MAG Management Committee is anticipated to make a recommendation to the MAG Regional Council. It is anticipated that the MAG Regional Council will take action on the draft plan amendments on February 22, 2006.

The draft documents will be available for public review at the MAG Office from 8:00 a.m. to 5:00 p.m. Monday through Friday beginning December 27, 2005. Copies will also be available for review at the Glendale Public Library, 59-29 West Brown Street; City of Mesa Library, 64 East First Street; and Phoenix Central Public Library, 1221 North Central Avenue. Public comments are welcome at the hearing, or may be submitted in writing by 2:00 p.m. on February 7, 2006 to MAG staff at the address below.

Contact Person: Julie Hoffman
302 North 1st Avenue, Suite 300
Phoenix, Arizona 85003
Fax: (602) 254-6490
MARICOPA ASSOCIATION OF GOVERNMENTS WATER QUALITY ADVISORY COMMITTEE MEETING AND PUBLIC HEARING ON THE DRAFT MAG 208 WATER QUALITY MANAGEMENT PLAN AMENDMENTS FOR THE TOWN OF BUCKEYE TRILLIUM WEST WASTEWATER TREATMENT FACILITY AND TOWN OF BUCKEYE PALO VERDE ROAD WASTEWATER TREATMENT PLANT ARIZONA POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT DISCHARGE TO THE ROOSEVELT IRRIGATION DISTRICT CANAL

Phoenix, Arizona
February 7, 2006
2:00 p.m.

Glennie
Reporting Services
5333 North 7th Street
Suite B110
Phoenix, Arizona 85014-2840
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Prepared by:
Janet Hauck, RPR
Arizona Certified
Reporter Number 50522

Prepared for:
Maricopa Association of Governments
(Original)
PUBLIC HEARING - 02/07/06

The Public Hearing was taken on February 7, 2006, commencing at 2:00 p.m., at the offices of the Maricopa Association of Governments, 302 North 1st Avenue, Suite 200, Phoenix, Arizona, before JANET HAUCK, RPR, a Certified Reporter, Certificate No. 50522, for the State of Arizona.

Committee Members Present:
Roger Klingler, City of Scottsdale, Chair
Lucky Roberts, Town of Buckeye
Michael Salisbury, City of El Mirage
Chris Ochs, City of Glendale
David Ivanski, City of Goodyear
William Mattingly, City of Peoria
Robert Hollander, City of Phoenix
Rich Williams, Sr., City of Surprise
David McNeil, City of Tempe
Ken James, Maricopa County
John Boyer, Pinnacle West Capital
Patrick Clay, U of A Cooperative Extension

Committee Members Attending by Telephone Conference Call:
Jacqueline Strong, City of Chandler
Bill Haney, City of Mesa

Others Present:
Ron Frey, Kennedy/Jenks Consultants
Fred Goldman, Kennedy/Jenks Consultants
John Tyldesley, CSA Engineering
Peter Chan, CSA Engineering
Keith Watkins, JF Properties
Jim Condit, JF Properties
Paul Gilbert, Beus Gilbert
Don Gorny, Mar-Wood, Inc.
Michele Robertson, Arizona Department of Environmental Quality
Others Present, Continuing

Edwina Vogan, Arizona Department of Environmental Quality
Steve Smith, Smith Consultants
Steve Speyer, Speyer & Associates, P.C.
Gene Cetwinski, ESCA Environmental
Charles Civer, Charles Civer Real Estate
Julie Hoffman, Maricopa Association of Governments
Ann Wimmer, Maricopa Association of Governments
PUBLIC HEARING - 02/07/06

MR. KLINGLER: I'd now like to open our public hearing on Draft MAG 208 Plan Amendments for the Town of Buckeye Trillium West Wastewater Treatment Facility and the Town of Buckeye Palo Verde Road Wastewater Treatment Plant Arizona Pollutant Discharge Elimination System Permit Discharge to the Roosevelt Irrigation District Canal.

We'll begin with a briefing on each draft amendment. And then following the briefings, hearing participants are invited to make comments for the public record. We do have a court reporter present to provide an official record of the hearing. Written comments are also welcome.

For those wishing to speak on the draft amendments, please fill out a yellow card and hand it to Julie or MAG staff here.

First, Paul Gilbert of Beus Gilbert and Peter Chan of CSA Engineering will provide a briefing on the Draft Buckeye Trillium West Amendment. Paul, or Peter, or both?

MR. GILBERT: Thank you, Mr. Chairman. Nice to see you again. My name is Paul Gilbert, 4800 North Scottsdale Road. I'm an attorney with the law firm of Beus Gilbert and representing JF Properties in
connection with the Trillium West MAG 208 Amendment.

I've presented most of this to many of you before. I've got to tell you, I don't know why we have so many hearings on these, but I suppose I shouldn't complain since I'm paid by the word. But at the risk of boring some of you, let me just briefly outline this project and tell you somewhat about it.

Peter will focus on some of the more technical aspects. I'm here on behalf of JF Properties who is the proposed developer of Trillium. With me and also available to answer questions in addition to Peter Chan who is our wastewater engineer is Jim Condit -- want to stand, Jim -- who is our in-house engineer, and Keith Watkins. I don't know what he does, but he always comes to these hearings with me.

We want you to know at the outset that JF Properties may not exactly be a household name to many of you. Relatively speaking, we're new in the area, but we're engaged virtually all over the valley. We are a serious developer. This is not a put-together plan and get something approved and then let someone else come in and do it. We will be the actual developer. We're developing Trillium West. And as we'll talk about further on in the presentation, we're not just putting this in and spinning it over to
PUBLIC HEARING - 02/07/06

someone else. You're talking to the people that will be developing this project.

Basically, the ownership and operation is spelled out here on our PowerPoint presentation. The financing will be by JF Properties. Obviously, eventually, the Town of Buckeye will be the owner. As is standard and customary, we'll put in the facility, we'll pay for it, and then we have the privilege of turning it over to the Town of Buckeye. They will, in turn, operate it or bring in a contract operator.

We're not sure which one they will pursue.

Trillium is a 3,000 acre development in the Town of Buckeye. It's located, as you can see there basically off the Sun Valley Parkway. 3,000 acres borders the parkway here, and we're entirely within the Town of Buckeye.

We were part of the original Sun Valley Area Plan which was approved in 1996, and the Trillium Comprehensive Master Plan was later approved by the Town of Buckeye recently in 2004.

Trillium, as you know, we have to do that as a follow-up before you can proceed. We have that approval. We've incidentally reduced the number of dwelling units that was approved in the Sun Valley Area Plan by almost 1,000 units. Not that that would
interest you, but it makes us feel good in saying it.

The preliminary plat was approved by the Town
Development Board in October of 2005, and this
preliminary plat was for 1,230 of the 3,000 acres.
This constitutes Villages 1, 2 and 3. And we're in the
process now of preparing the final plat which will, in
the very near future, be submitted to Buckeye for
approval. We also have filed a preliminary plat for
the remaining 1,812 acres.

So, very soon, we will have approval for
development of the entire 3,000 acres that constitutes
the Trillium project. We've gone to a lot of detail in
addressing some of the major issues. We've worked out
schools, fire, police, water and sewer, all to the
satisfaction of Buckeye.

You should also be aware that we participated
in the regional studies that have taken place here.
I'll point out we participated in the Massayampa Basin
study. We're a signatory to the cost sharing
agreement. We've obtained a 404 delineation of
jurisdictional wetlands from the Federal Government.
We filed for a 404 permit to define the construction
boundaries of the wetlands. We expect to have that
permit very soon.

We've also obtained an analysis of assured
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water supply. We have been provided support from the Town of Buckeye through this MAG 208 Amendment application. We've worked with the school district and everybody you have to work with. I'll just summarize that. We've done it.

So, we believe that this is a project that is in a position where now it can go forward subject to this 208 Amendment which, as noted, has the complete support of the Town of Buckeye.

This is phase 1 of the 20-year regional solution. And we'll point out in just a moment we're preparing this treatment facility so that it will not only serve the Trillium project, but is available for both expansion and by design so that it can accommodate other development in the area.

We estimate that the 2026 Trillium population will be basically in this vicinity. By 2026, the population of Trillium will be about 25,000 people, and then we've broken that down for you as to how the development shakes down with densities and commercial and schools and so on.

The regional facility, as I indicated, is designed for expansion. So, we've got room in here so that we can do expansion in the event the property adjacent to us and to the north decides also to use
this regional facility. We've worked closely with the Town of Buckeye to ensure that that works.

Wastewater flows are by gravity to the treatment plant. We have sufficient setbacks. We submit this as effective use of the land, and we are close to a discharge location.

I'm going to turn the discussion of the facility design over to Peter. He'll give you some more specifics, and then I'll just wrap up.

MR. CHAN: Thank you, Paul. Good afternoon, everyone. The preliminary treatment plant is actually going to be designed in four phases. We are designing the first phase which is SBR, a sequencing batch reactor, a treatment bioreactor. Phases 2, 3 and 4 are going to be converted. The phase 1 treatment plant is going to be converted to a MLE process, straight flow-through process.

Right now, the SBR will be designed to remove nitrogen from the influent raw sewage. We're going to pass it through a sand filter and then followed by UV disinfection, and it will be recharged on-site and has a potential of using it for irrigation, too. We will meet the ADEQ Title 18 Class A+ Effluent Standards. The biosolids will be Class B.

This is a process diagram of the Trillium
West Wastewater Treatment Plant. Like Paul mentioned, it will flow in by gravity through the influent pump station, and then it flows through fine screens, and then into two SBR tanks. We will have a aerobic digester in the middle to thicken the solids a little bit more than what we have in the SBR. And then it will go through two sand filters, UV disinfection. And the whole plant is going to be -- at least the processors that are going to give off odors are going to be controlled using GAC filters, and it's going to have its own effluent pump station and recharge basins.

The lower part of this slide shows the expansion. And the same plant is going to be expanded. As you can see, from this SBR, we're going to expand it and change it to a flow-through MLE process. And ultimately, the Town of Buckeye is going to receive a treatment plant that is unified, so all the shapes of the clarifier and the bioreactors are the same. So, it's not a small plant, and then we're trying to expand it in different shapes and sizes. So, it's going to be one unified plant up to 2.8 MGD.

The water quality coming out of the treatment plant is Class A+ in which turbidities can be left in two NTUs over a 24-hour mean and with a maximum of five NTUs. The fecal coliform standards are shown, and then
the nitrogen is going to be less than 10. In fact, our
design is based on 8 milligrams per liter.
    Well, with that, I'm going to turn it over to
Paul to finish up the presentation.
    MR. GILBERT: I think that pretty well does
it. I'm just tempted to see if I can give Rich
Williams a little pop quiz on the statistics on our --
never mind. I can't even say it.
    Let me just say, 33 percent of the total
project area will be provided an active open space.
It's a terrific project that's very enthusiastically
endorsed by the Town of Buckeye. And we think we've
got a good project, and we're ready to go forward.
This is kind of the last important regulatory step that
we need to conclude. I'll be happy to answer any other
questions that you have.
    MR. KLINGER: Thank you, Paul. Thank you,
Peter, and thank you for Jim Condit, too. I know that
he's been very helpful to you. He benefitted from good
management in Scottsdale when he was there. So, you're
lucky to have Jim.
    MR. GILBERT: Thank you.
    MR. KLINGER: We appreciate this
presentation and the thorough presentation you provided
us at the last meeting where we had an opportunity to
ask a lot of in-depth questions that you responded to. 
So, I think we're very well briefed. Anything else at 
this point? I appreciate it. Thank you, gentlemen.

MR. GILBERT: Pleasure.

MR. KLINGLER: What we're going to do is go 
right to the next hearing, and then we'll consider 
these formally after the public comments.

So, Fred Goldman of Kennedy Jenks Consultants 
is going to give us a briefing on the second hearing 
item, the Draft Buckeye Palo Verde Road Amendment.

Fred.

MR. GOLDMAN: Thank you very much. Our 
presentation is very short. We have already gone 
through a 208 Amendment for the entire project which 
was approved in February. The plant is a 10.2 million 
gallon per day plant to be built in phases starting 
with .25 MGD going to 1 MGD all the way up to 10.2.

And the purpose of this amendment today is to obtain an 
approval to amend the 208 to allow a discharge to the 
Roosevelt Irrigation Canal. Currently, the 208 allows 
a discharge to the Buckeye Irrigation Canal which is to 
the south, a discharge to Hassayampa River and there 
are recharges also allowed in the 208 Amendment.

So, our change is to go to the north to the 
RID Canal. And the Roosevelt Irrigation District has
expressed an interest in receiving our effluent. The effluent will be treated to an A+ quality, and it will be very useful for the customers of the Roosevelt Irrigation District. That's located up here and our plant is located in this area.

The general location, Palo Verde Road, is the continuation of the parkway. The parkway is to the north, and it's about half mile north of Southern Avenue. That's where we are, in general, located in the Town of Buckeye.

The permits that will be required are the AZPDES permit which has to have a 208 approval, the Aquifer Protection Permit, and that will require an amendment to the one that we have now, and of course, an approval to construct from Maricopa County for the effluent line that will go to the canal and discharged into the canal.

I'll be happy to answer any questions if you have any.

MR. KLINGLER: Appreciate that presentation, Fred. Are there any questions at this point? So, we'll continue with the public hearing, thank you.

So, at this time, we'd like to invite any public comments on each or either one of the Draft 208 Amendments. Julie, did we get any cards? Okay. So,
we have not received any cards. And if there are any written comments, those will be considered, also. Don't have those.

So, at this point, I guess I would like to close the public hearing and request the court reporter to end the transcription. Thank you very much.

(The public hearing portion of the proceedings concluded at 2:26 p.m.)

* * *

GLENNEIE REPORTING SERVICES, L.L.C.
I, JANET HAUCK, a Certified Reporter, Certificate No. 50522, in the State of Arizona, do hereby certify that the foregoing pages constitute a full, true, and accurate transcript of all proceedings had in the foregoing matter, all done to the best of my skill and ability.

I FURTHER CERTIFY that I am not related to nor employed by any of the parties hereto, and have no interest in the outcome hereof.

WITNESS my hand this 7th day of March, 2006.

Janet Hauck, RPR
Arizona Certified Reporter No. 50522