

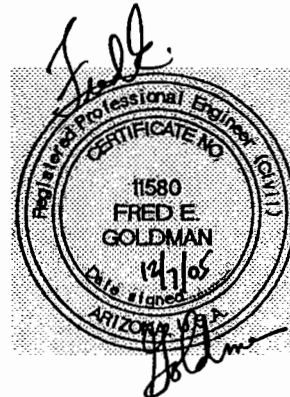
Kennedy/Jenks Consultants

3101 N. Central Avenue, Suite 1470
Phoenix, Arizona 85012
602-274-0886
602-275-0764 (Fax)

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

K/J Project No. 049039

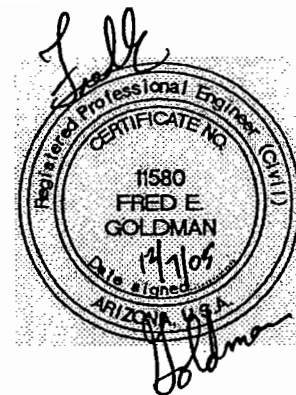


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Section 1: Executive Summary

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 BID 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.

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
1	<p><u>AUTHORITY</u></p> <p>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.</p>	<p>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>	
2	<p><u>20-YEAR NEEDS</u></p> <p>Clearly describe the existing wastewater treatment (WWT) facilities: -Describe existing WWT facilities.</p>	<p>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>	
3	<p>Show WWT certified and service areas for private utilities and sanitary district boundaries if appropriate.</p>	<p>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>	
4	<p>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.</p>	<p>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>	
5	<p>Provide wastewater flow estimates over the 20-year planning period.</p>	<p>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>	
6	<p>Illustrate the WWT planning and service areas.</p>	<p>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>	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
7	Describe the type and capacity of the recommended WWT Plant.	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.	
8	Identify water quality problems, consider alternative control measures, and recommend solution for implementation.	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.	
9	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?	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.	
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
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.	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
14	Address financial constraints 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.	
15	Describe how discharges will comply with EPA municipal and industrial stormwater discharge regulations (Section 405, CWA).	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.	
16	Describe how open areas & recreational opportunities will result from improved water quality and how those will be used.	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.	
17	Describe potential use of lands associated with treatment works and increased access to water-based recreation, if applicable.	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.	
18	<u>REGULATIONS</u> Describe types of permits needed, including NPDES, APP and reuse.	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.	
19	Describe restrictions on NPDES permits, if needed, for discharge and sludge disposal.	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.	
20	Provide documentation of communication with ADEQ Permitting Section 30 to 60 days prior to public hearing regarding the need for specific permits.	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.	
21	Describe pretreatment requirements and method of adherence to requirements (Section 208 (b)(2)(D), CWA).	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.	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
22	Identify, if appropriate, specific pollutants that will be produced from excavations and procedures that will protect ground and surface water quality (Section 208(b)(2)(K) and Section 304, CWA).	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.	
23	Describe alternatives and recommendation in the disposition of sludge generated. (Section 405 CWA).	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.	
24	Define any nonpoint issues related to the proposed facility and outline procedures to control them.	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.	
25	Describe process to handle all mining runoff, orphan sites and underground pollutants, if applicable.	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.	
26	If mining related, define where collection of pollutants has occurred, and what procedures are going to be initiated to contain contaminated 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.	
27	If mining related, define what specialized procedures will be initiated for orphan sites, if applicable.	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.	
28	<u>CONSTRUCTION</u> Define construction priorities and time schedules for initiation and completion.	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.	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
29	Identify agencies who will construct, operate and maintain the facilities and otherwise carry out 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.	
30	Construction will follow non-point source requirements to control erosion. There are no non-point issues related to this project that are expected.	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.	
31	<u>FINANCING AND OTHER MEASURES NECESSARY TO CARRY OUT THE PLAN</u> If plan proposes to take over certificated private utility, describe how, when and financing will be managed.	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.	
32	Describe any significant measure necessary to carry out the plan, e.g., institutional, financial, economic, etc.	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.	
33	Describe proposed method(s) of community financing.	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.	
34	Provide financial information to assure DMA has financial capability to operate and maintain wastewater system over its useful life.	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.	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
35	Provide a time line outlining period of time necessary for carrying out plan implementation.	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.	
36	Provide financial information indicating the method and measures necessary to achieve project financing. (Section 201 CWA or Section 604 may apply.)	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.	
37	<p><u>IMPLEMENTABILITY</u></p> <p>Describe impacts and implementability of Plan:</p> <ul style="list-style-type: none"> - 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.	
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 MAG 208 Plan Amendment for the Town of Buckeye Palo Verde Road WWTP, approved by the MAG Regional Council on February 23, 2005.	

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

Item No.	REQUIREMENT	PROVIDE BRIEF SUMMARY ON HOW REQUIREMENTS ARE ADDRESSED	ADDRESSED ON PAGE:
41	<u>PUBLIC PARTICIPATION</u> Submit copy of mailing list used to notify the public of the public hearing on the 208 Amendment. (40 CFR, Chapter 1, Part 25.5)	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.	
42	List location where documents are available for review at least 30 days before public hearing.	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.	
43	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.	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.	
44	Submit affidavit of publication for official newspaper publication.	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.	
45	Submit responsiveness summary for public hearing.	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.	

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.

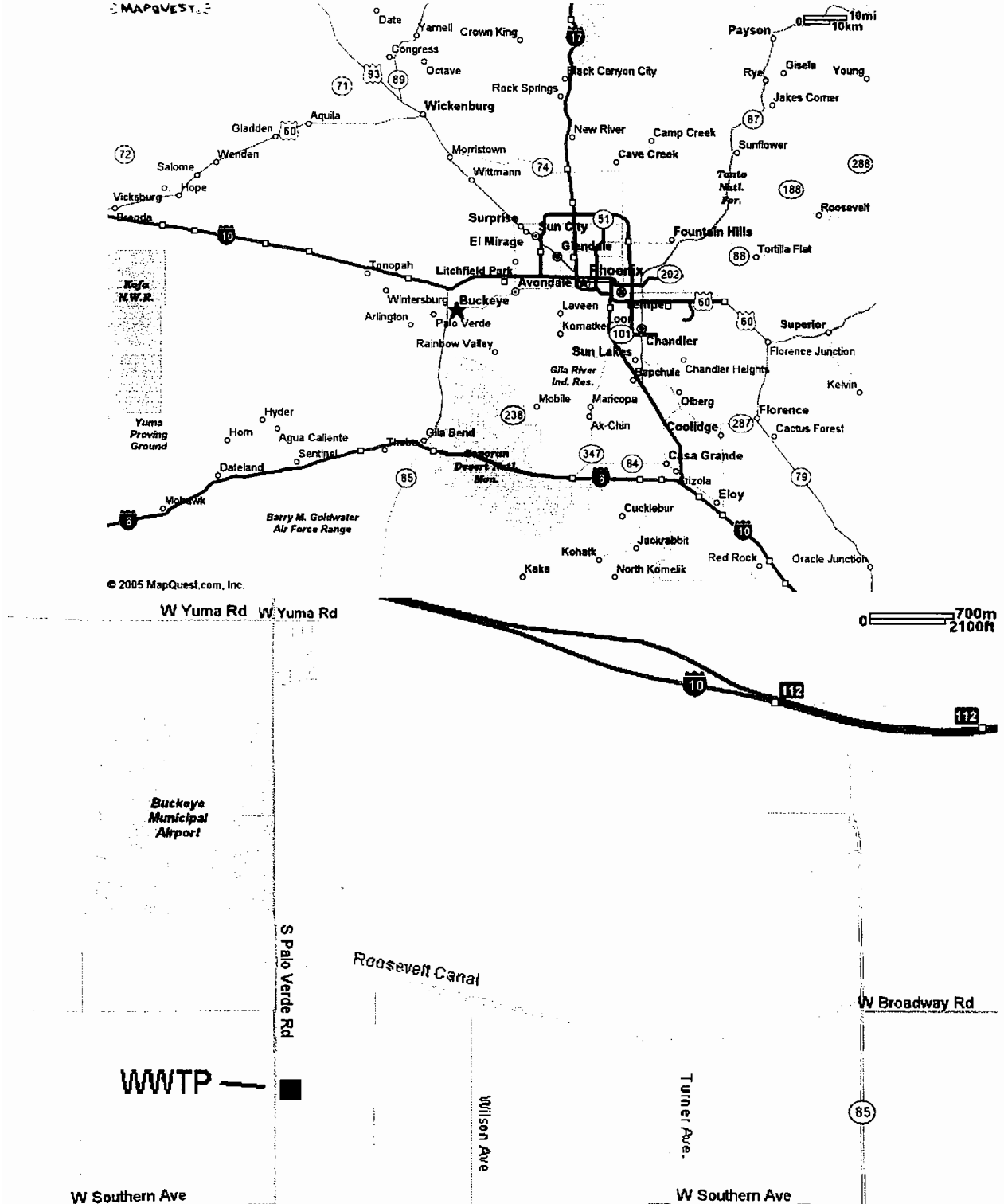
3.1 Town of Buckeye

Included in Exhibit II.

3.2 Maricopa County Environmental Services Department

Included in Exhibit II.

Town of Buckeye Palo Verde Road Wastewater Treatment Plant Maricopa County, Arizona



© 2005 MapQuest.com, Inc.

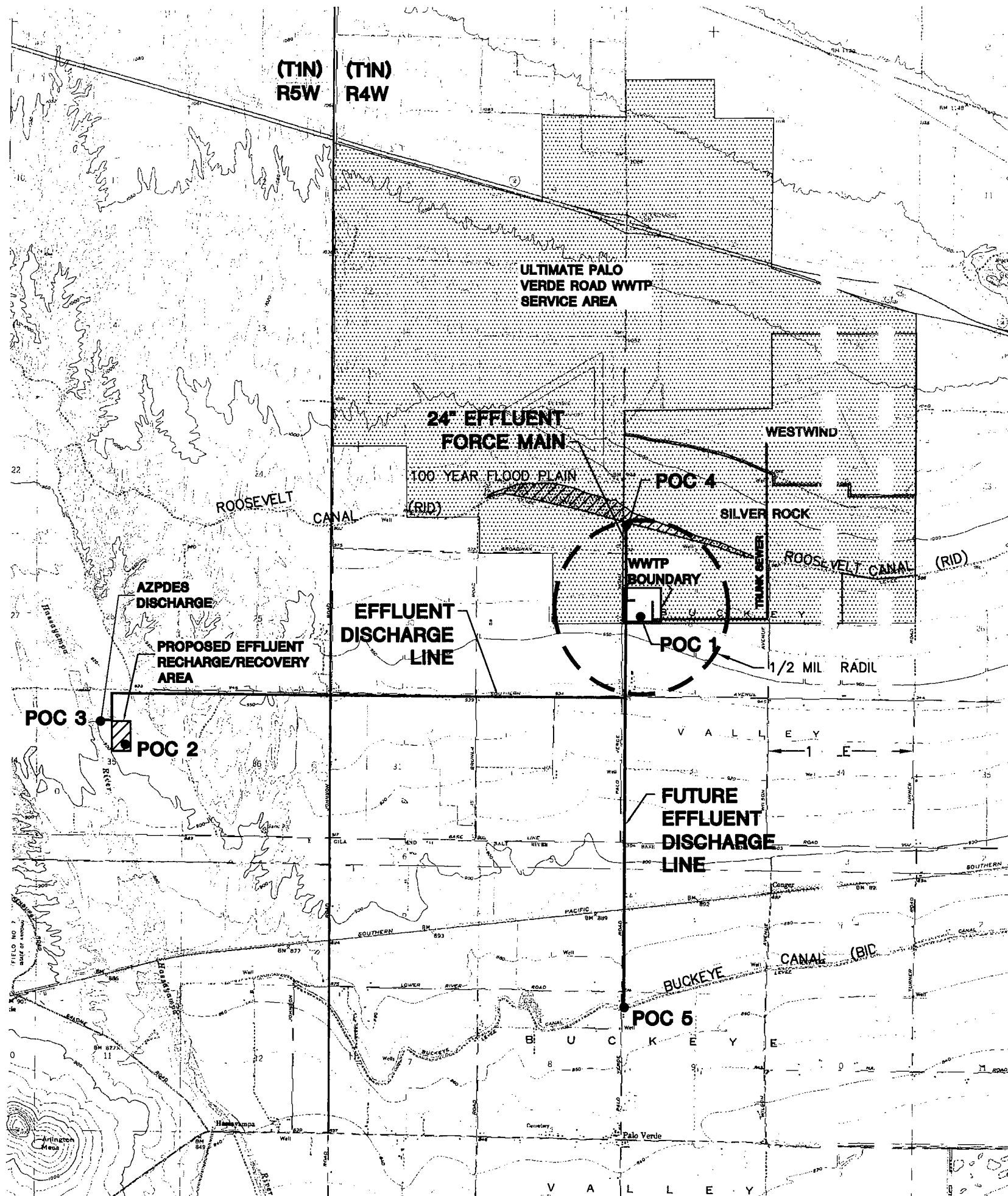
WWTP — ■

Kennedy/Jenks Consultants

Engineers & Scientists

Town of Buckeye
Palo Verde Road WWTP
Vicinity Map

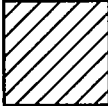
Not to Scale



FEATURE COORDINATES

LOCATION	LONGITUDE (W)	LATITUDE (N)
WWTP (CENTER)	112°40'28"	33°24'02"
POC 1 (WWTP)	112°40'30"	33°23'58"
POC 2 (RECHARGE)	112°44'10.7"	33°23'10.8"
POC 3 (HASSAYAMPA AZPDES)	112°44'16.5"	33°23'18.3"
POC 4 (RID AZPDES)	112°40'36"	33°24'35"
POC 5 (BID AZPDES)	112°40'34"	33°21'41"

LEGEND

 100 YEAR FLOOD PLAIN, DEPTH 3' AND LESS (UP SLOPE SIDE OF ROOSEVELT CANAL). ADDITIONAL 100 YEAR FLOOD PLAINS (NOT SHOWN) ARE MORE THAN 1 MILE FROM WWTP.

 ULTIMATE PALO VERDE ROAD WWTP APPROVED 208 SERVICE AREA

BID BUCKEYE IRRIGATION DISTRICT

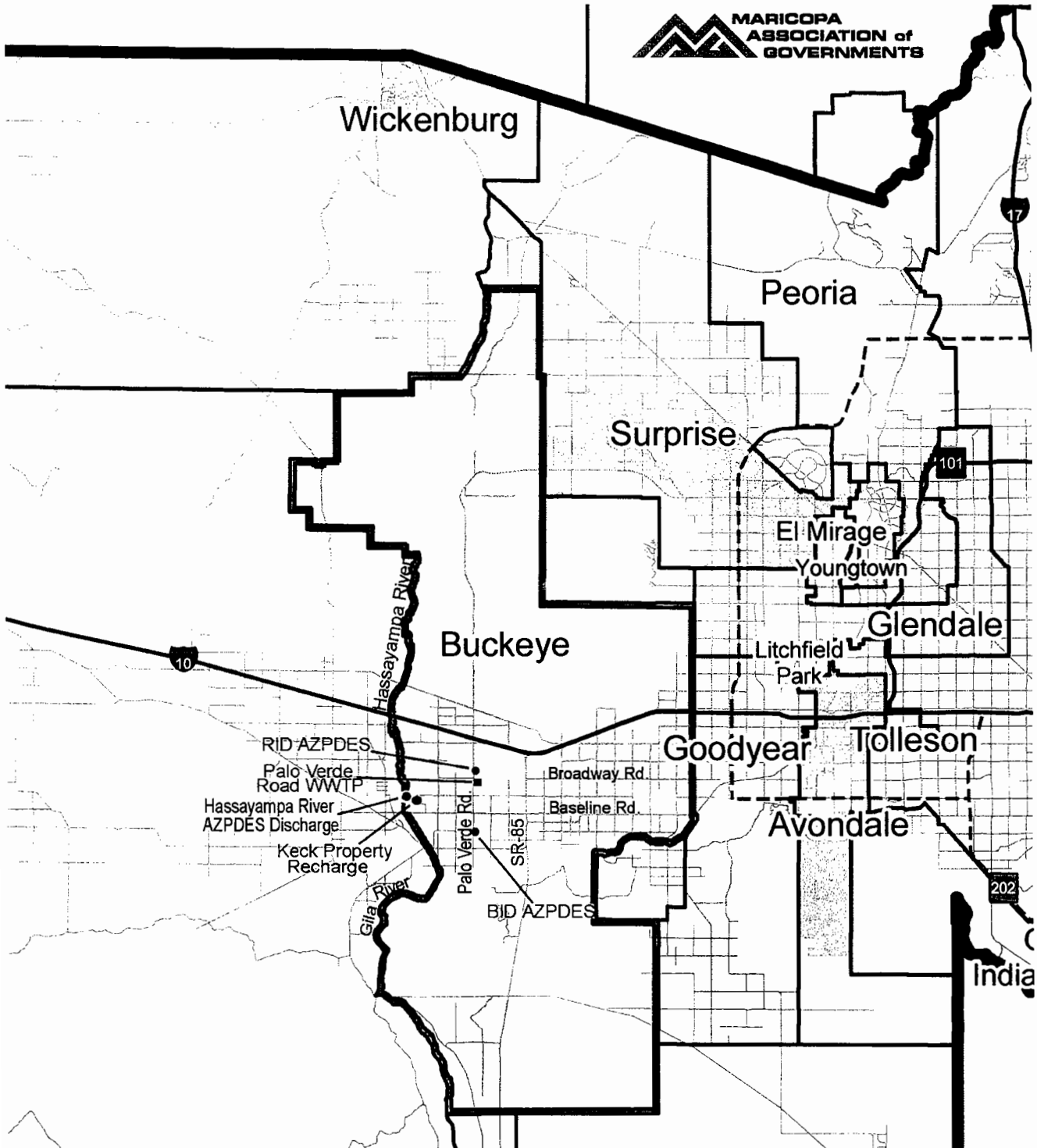
RID ROOSEVELT IRRIGATION DISTRICT

Kennedy/Jenks Consultants

Town of Buckeye
 Buckeye, Arizona
PALO VERDE ROAD WWTP
208 Amendment (RID Discharge) Site Map
 0493039
 December 2005

Figure 2

**Town of Buckeye
Palo Verde Road Wastewater Treatment Plant
Maricopa County, Arizona**



Not to Scale

*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 12/1/05. 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*

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Kennedy/Jenks Consultants

Engineers & Scientists

Town of Buckeye
**Palo Verde Road WWTP
Town of Buckeye Planning Area Map**

0493039
December 2005
Figure 3



Town of Buckeye

Town Manager Office

100 North Apache, Suite A Buckeye Arizona 85326 (623)386-4691 Fax (623)387-7832

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,

Carroll Reynolds, P.E.

Town Manager

cc:

Ms. Lindy Bauer, Environmental Director MAG
Joan Scarbrough, Centex Homes
C. Lucky Roberts, Town of Buckeye



Maricopa County

Environmental Services

Water and Waste Management Division

December 2, 2005

Maricopa Association of Governments
302 North 1st Avenue, Suite 300
Phoenix, AZ 85003

01 N. Central Ave., Suite 150
Phoenix, AZ 85004
Phone: (602) 506-6666
x: (602) 506-6925
DD: 602 506 6704
www.maricopa.gov/envsvc

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/Jenks Consultants submitted a proposed 208 Amendment for a revision to the existing 208 Plan of the PVRWWTP 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 208 Areawide 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,

A handwritten signature in cursive script that reads "Kenneth R. James PE for".

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

cc: Fred Goldman, PE, Kennedy/Jenks, 3101 North Central Ave., Suite 1470, Phoenix, AZ 85012
Carroll Reynolds, PE, Town Manager, Town of Buckeye, 100 N. Apache, Buckeye, AZ 85326
File

THE ARIZONA REPUBLIC

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

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

MAG Office, Suite 200 - Saguaro Room
302 North 1st Avenue
Phoenix, Arizona 85003

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, 5959 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.

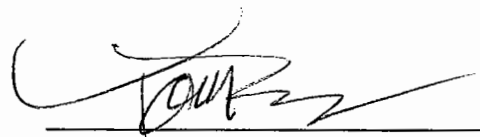
Contact Person: Julie Hoffman
302 North 1st Avenue, Suite 200
Phoenix, Arizona 85003
Fax: (602) 254-6490
05104-December 24, 2005.

STATE OF ARIZONA }
COUNTY OF MARICOPA } SS.

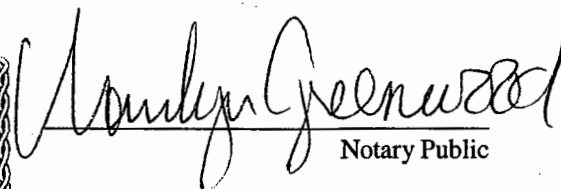
TOM BIANCO, being first duly sworn, upon oath deposes and says: That he is the advertising manager of the Arizona Business Gazette, a newspaper of general circulation in the county of Maricopa, State of Arizona, published at Phoenix, Arizona, by Phoenix Newspapers Inc., which also publishes The Arizona 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


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 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

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 Trillium 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 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.

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 Brown 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.

A Voluntary Association of Local Governments in Maricopa County

**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**

Tuesday, February 7, 2006 at 2:00 p.m.
MAG Office, Suite 200 - Saguaro Room
302 North 1st Avenue
Phoenix, Arizona 85003

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.

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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 of 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, 5959 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
Received

MAR 08 2006

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

(602) 266-6535 Phone
(602) 266-9661 Fax

Prepared by:
Janet Hauck, RPR
Arizona Certified
Reporter Number 50522

Prepared for:
Maricopa Association of
Governments

(Original)

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

7
8 **Committee Members Present:**

9 Roger Klingler, City of Scottsdale, Chair
10 Lucky Roberts, Town of Buckeye
11 Michael Salisbury, City of El Mirage
12 Chris Ochs, City of Glendale
13 David Iwanski, City of Goodyear
14 William Mattingly, City of Peoria
15 Robert Hollander, City of Phoenix
16 Rich Williams, Sr., City of Surprise
17 David McNeil, City of Tempe
18 Ken James, Maricopa County
19 John Boyer, Pinnacle West Capital
20 Patrick Clay, U of A Cooperative Extension

21 **Committee Members Attending**
22 **by Telephone Conference Call:**

23 Jacqueline Strong, City of Chandler
24 Bill Haney, City of Mesa

25 **Others Present:**

26 Ron Frey, Kennedy/Jenks Consultants
27 Fred Goldman, Kennedy/Jenks Consultants
28 John Tyldesley, CSA Engineering
29 Peter Chan, CSA Engineering
30 Keith Watkins, JF Properties
31 Jim Condit, JF Properties
32 Paul Gilbert, Beus Gilbert
33 Don Gorny, Mar-Wood, Inc.
34 Michele Robertson, Arizona Department of Environmental
35 Quality

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1 Others Present, Continuing2 Edwina Vogan, Arizona Department of Environmental
Quality

3 Steve Smith, Smith Consultants

4 Steve Speyer, Speyer & Associates, P.C.

5 Gene Cetwinski, ESCA Environmental

6 Charles Civer, Charles Civer Real Estate

7 Julie Hoffman, Maricopa Association of Governments

8 Ann Wimmer, Maricopa Association of Governments

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

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

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

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

22 MR. GILBERT: Thank you, Mr. Chairman. Nice
23 to see you again. My name is Paul Gilbert, 4800 North
24 Scottsdale Road. I'm an attorney with the law firm of
25 Beus Gilbert and representing JF Properties in

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1 connection with the Trillium West MAG 208 Amendment.

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

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

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

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

3 Basically, the ownership and operation is
4 spelled out here on our PowerPoint presentation. The
5 financing will be by JF Properties. Obviously,
6 eventually, the Town of Buckeye will be the owner. As
7 is standard and customary, we'll put in the facility,
8 we'll pay for it, and then we have the privilege of
9 turning it over to the Town of Buckeye. They will, in
10 turn, operate it or bring in a contract operator.
11 We're not sure which one they will pursue.

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

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

21 Trillium, as you know, we have to do that as
22 a follow-up before you can proceed. We have that
23 approval. We've incidentally reduced the number of
24 dwelling units that was approved in the Sun Valley Area
25 Plan by almost 1,000 units. Not that that would

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1 interest you, but it makes us feel good in saying it.

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

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

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

25 We've also obtained an analysis of assured

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1 water supply. We have been provided support from the
2 Town of Buckeye through this MAG 208 Amendment
3 application. We've worked with the school district and
4 everybody you have to work with. I'll just summarize
5 that. We've done it.

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

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

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

22 The regional facility, as I indicated, is
23 designed for expansion. So, we've got room in here so
24 that we can do expansion in the event the property
25 adjacent to us and to the north decides also to use

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1 this regional facility. We've worked closely with the
2 Town of Buckeye to ensure that that works.

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

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

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

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

25 This is a process diagram of the Trillium

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

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

22 The water quality coming out of the treatment
23 plant is Class A+ in which turbidities can be left in
24 two NTUs over a 24-hour mean and with a maximum of five
25 NTUs. The fecal coliform standards are shown, and then

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1 the nitrogen is going to be less than 10. In fact, our
2 design is based on 8 milligrams per liter.

3 Well, with that, I'm going to turn it over to
4 Paul to finish up the presentation.

5 MR. GILBERT: I think that pretty well does
6 it. I'm just tempted to see if I can give Rich
7 Williams a little pop quiz on the statistics on our --
8 never mind. I can't even say it.

9 Let me just say, 33 percent of the total
10 project area will be provided an active open space.
11 It's a terrific project that's very enthusiastically
12 endorsed by the Town of Buckeye. And we think we've
13 got a good project, and we're ready to go forward.
14 This is kind of the last important regulatory step that
15 we need to conclude. I'll be happy to answer any other
16 questions that you have.

17 MR. KLINGLER: Thank you, Paul. Thank you,
18 Peter, and thank you for Jim Condit, too. I know that
19 he's been very helpful to you. He benefitted from good
20 management in Scottsdale when he was there. So, you're
21 lucky to have Jim.

22 MR. GILBERT: Thank you.

23 MR. KLINGLER: We appreciate this
24 presentation and the thorough presentation you provided
25 us at the last meeting where we had an opportunity to

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1 ask a lot of in-depth questions that you responded to.
2 So, I think we're very well briefed. Anything else at
3 this point? I appreciate it. Thank you, gentlemen.

4 MR. GILBERT: Pleasure.

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

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

12 MR. GOLDMAN: Thank you very much. Our
13 presentation is very short. We have already gone
14 through a 208 Amendment for the entire project which
15 was approved in February. The plant is a 10.2 million
16 gallon per day plant to be built in phases starting
17 with .25 MGD going to 1 MGD all the way up to 10.2.
18 And the purpose of this amendment today is to obtain an
19 approval to amend the 208 to allow a discharge to the
20 Roosevelt Irrigation Canal. Currently, the 208 allows
21 a discharge to the Buckeye Irrigation Canal which is to
22 the south, a discharge to Hassayampa River and there
23 are recharges also allowed in the 208 Amendment.

24 So, our change is to go to the north to the
25 RID Canal. And the Roosevelt Irrigation District has

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1 expressed an interest in receiving our effluent. The
2 effluent will be treated to an A+ quality, and it will
3 be very useful for the customers of the Roosevelt
4 Irrigation District. That's located up here and our
5 plant is located in this area.

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

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

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

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

23 So, at this time, we'd like to invite any
24 public comments on each or either one of the Draft 208
25 Amendments. Julie, did we get any cards? Okay. So,

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1 we have not received any cards. And if there are any
2 written comments, those will be considered, also.
3 Don't have those.

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

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

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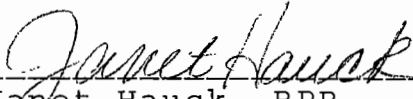
PUBLIC HEARING - 02/07/06

STATE OF ARIZONA)
)
COUNTY OF MARICOPA)

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