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**LAND AND WATER USE REPORT
WEST VAN BUREN AREA (WVBA)
WATER QUALITY ASSURANCE REVOLVING
FUND (WQARF) REGISTRY SITE
Phoenix, Arizona**

Terranext Project No. 03103154

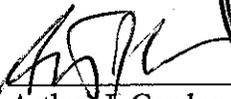
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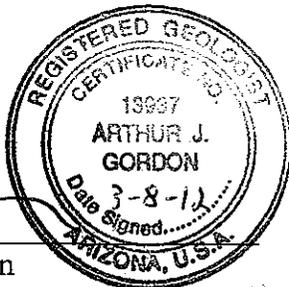
**Arizona Department of Environmental Quality
1110 West Washington
Phoenix, Arizona 85007**

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Executive Summary

The West Van Buren Area (WVBA) Water Quality Assurance Revolving Fund (WQARF) Registry Site is the areal projection of the western portion of a large commingled plume of contaminated groundwater in Phoenix, Arizona. Contributors to this plume include both industrial facilities and contaminated groundwater from the east, as regional groundwater flow is generally westward. The initial primary contaminants of concern (COC) for the WVBA include the following volatile organic compounds (VOCs): tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA), cis 1,2-dichloroethene, 1,1-dichloroethane, and 1,1-dichloroethene (1,1-DCE). To a limited extent, chromium is also being considered a COC. Benzene, toluene, ethylbenzene, and xylenes (BTEX) were part of the original COC list because of detections at various locations throughout the plume. BTEX was eventually dropped from the COC list because the contaminants were limited to leaking underground storage tank (LUST) facilities regulated by ADEQ's Underground Storage Tank (UST) Program and limited in extent.

The land and water use study (use study) is required in accordance with Arizona Administrative Code (AAC) R18-16-406.A.3, which states that the remedial investigation (RI) shall identify current and reasonably foreseeable uses of land and waters of the state. As specified in AAC R18-16-406.D, reasonably foreseeable uses of water are those likely to occur within 100 years.

In order to obtain consistent land and water use information from specified stakeholders, a standardized land and water use study questionnaire was prepared and mailed by ADEQ to property owners, municipalities, and utilities in the WVBA. A total of 57 questionnaires were mailed; of these, 25 completed questionnaires were returned. The questionnaires requested specific information in the following areas:

- Property information
- On-site wells
- Water use
- Waste streams

Based on the land and water use study questionnaires returned to ADEQ, little significant change to respondent properties is expected to occur.

The entire WVBA is located within the City of Phoenix (COP). However, the WVBA abuts the City of Tolleson's easternmost boundary, which is 75th Avenue between Van Buren and the Roosevelt Irrigation District (RID) canal. Thus, most of the discussion of land use centers on the COP General Plan, most recently amended in January 2004. Arizona State law requires each city to have a General Plan that establishes policy for the city's physical development. The COP General Plan includes goals, policies, and recommendations to guide land use and neighborhood development for the next 10 to 20 years and beyond.

The COP is comprised of 15 "urban villages". The WVBA is located in the Central City and Estrella urban villages, with the division between them being I-17 north of Durango, and 19th Avenue south of Durango. There are no village cores or special planning districts within the WVBA. Given the vast acreage of agricultural land available to be developed in the future, the

Estrella Village is identified as a Phoenix targeted growth area, and is expected to experience significant increases in both employment and residential growth.

The WVBA abuts the City of Tolleson's easternmost boundary, which is 75th Avenue between Van Buren and the RID canal. Of the existing WVBA land use, most (46 percent) was agricultural/vacant, followed by industrial/warehouse (24 percent), and residential (14 percent). Land use in eastern Tolleson, adjacent to the WVBA, is primarily agricultural/vacant and industrial. Given the vast acreage of agricultural/vacant land available to be developed in the future, Tolleson is expected to experience significant increases in employment.

The COP Water Services Department issued a water resources plan (Plan) in 2011. Plans for specific groundwater development within the WVBA are not addressed in the Plan. The plan also includes water development policies.

Since 1985, groundwater use by the COP steadily declined due to the availability of Central Arizona Project (CAP) water, the development of SRP-based surface water supplies, and provisions in the State's Groundwater Code which mandates groundwater use limitations. In effect, the State Code and COP corresponding policy rely on groundwater as an essential supply to mitigate future water shortages. The COP currently meets over 95 percent of its demand with surface water sources that could be curtailed due to long-term drought in source watersheds. The COP also relies on groundwater to accommodate water system maintenance and as a back-up during temporary outages. Projected groundwater use in normal supply years is assumed to be 15,000 to 20,000 acre-feet per year (AFY) in the Plan, but could be greater during surface water shortages.

In 2010, the Arizona Department of Water Resources approved the COP's application for a designation of assured water supply. This designation, a re-validation of the original approval by ADWR in 1998, signifies that the COP has sufficient renewable water supplies to support projected demand levels for the year 2025, and can maintain these supplies through the year 2110. A portion of these water supplies includes groundwater.

The COP has 20 active wells currently in production that can generate up to 28 million gallons of water per day. These wells are located at least one mile from WQARF boundaries. Due to water quality degradation (and the establishment of more stringent maximum contaminant levels - MCLs), other wells were placed on inactive status.

The total loss of COP well production for normal use from 1981 to 2000 due to elevated contaminant concentrations exceeds 90,000 AFY from the closure of over 60 wells. This represented 60 percent of the total production capacity of COP wells over that time frame.

Degraded groundwater constitutes a vast reserve of water for use in meeting the COP's future water needs. The COP maintains several wells within or adjacent to WQARF sites for emergency use and future use in meeting service area water needs; these wells could be placed back in service with the addition of wellhead treatment systems or approved blending programs. Also, the COP holds "Special Pump Rights" with SRP, which are rights to groundwater well capacity developed by SRP. In order for the COP to maintain and use these rights in the future,

it may be necessary to connect SRP wells directly to the COP water distribution system; this may require the addition of wellhead treatment systems.

The use of potentially degraded groundwater is likely to be somewhat limited within the next decade, but the COP will depend more heavily on this groundwater to provide for service area water demands later in the 50-year planning horizon. The 2009 COP Groundwater Management Plan describes opportunities to develop 15 additional groundwater production wells yielding approximately 70,000 acre-feet per year. Four of these wells would be located south of the WVBA in the "Western Canal and West Phoenix" well field. These wells would be screened within the LAU, come on-line in 2020, and produce a combined 12 million gallons per day. Of these wells, the well closest to the WVBA would be located at 35th Avenue and Lower Buckeye Road, approximately 0.75 mile south of the WVBA.

RID provides its members with water for agricultural irrigation. The total number of RID production wells is approximately 104. Production wells typically are pumped from March through September. There are currently two sources of RID water. Approximately 30,000 AFY is obtained as effluent from the 23rd Avenue Wastewater Treatment Plant and approximately 135,000 AFY is obtained from pumped groundwater.

The RID was formed in 1928, after securing an agreement with SRP to pump and deliver water in 1923. SRP may take the position that this agreement will expire in 2019. RID takes the position that the agreement does not expire. If SRP prevails in its position, then RID may no longer be able to pump wells east of the Agua Fria River, cutting RID's pumping by 85 percent.

Up to 30,000 AFY of additional reclaimed water from the 23rd Avenue plant could be provided to RID in lieu of groundwater pumpage. RID, in cooperation with the COP, holds a groundwater savings facility (GSF) permit for this additional reclaimed water. The GSF permit will allow the COP to accrue water storage credits for pumpage elsewhere. The COP currently applies the credits to groundwater pumped to supply the planned Rio Salado Habitat Restoration Project along the Salt River from 19th Avenue to 24th Street; which is outside the WVBA. Thus, implementation of the GSF will result in the reduction of groundwater pumpage within the WVBA. As farmland currently served by the RID becomes more and more developed, less water will be needed from RID.

RID provides its members with water for agricultural irrigation. RID water is derived from two sources, but it is all delivered via a canal system. The Roosevelt Canal runs through a portion of the WVBA along its western boundary, and this canal is fed via wells within the WVBA that discharge into laterals that flow south into the canal. A smaller second RID canal flows west along the south side of Van Buren Street beginning at RID well 114 located on the west side of I-17. RID water is mostly used for crops not used for human consumption. The RID water users are downgradient of the WVBA; no water in the RID canal is used within the WVBA.

SRP generally uses groundwater to supplement its surface water supply. Thus, annual use of groundwater will fluctuate depending upon the availability of surface water. SRP currently has ten groundwater supply wells near the WVBA. As the area becomes more urbanized, wells with suitable water quality may be shifted to municipal use. Based on specific well information, the

most reliable method of projecting future aquifer use by SRP may be through evaluation of their past aquifer use. The sum total of this historical annual pumpage is 15,820 acre-feet; thus, this may represent the future average annual pumpage by SRP in and near the WVBA.

The City of Tolleson currently uses four production wells. Since Tolleson currently receives most of its water from the COP, through an Inter-Governmental Agreement, these four wells are used mainly during summer months for backup supply purposes. If the COP should experience a water shortage, Tolleson would become more reliant on their production wells.

1.0 Introduction

1.1 Project Background

Terranext was retained by the Arizona Department of Environmental Quality (ADEQ) to perform a land and water use study at the West Van Buren Area (WVBA) Water Quality Assurance Revolving Fund (WQARF) Registry Site (Figure 1-1). The project is being performed in accordance with Arizona Response Action Contract No. EV09-0100 and Procurement Reference No. 10-0047.

The WVBA is the areal projection of the western portion of a large commingled plume of contaminated groundwater in Phoenix, Arizona. Contributors to this plume include both industrial facilities and contaminated groundwater from the east, as regional groundwater flow is generally westward. The initial primary COC for the WVBA include the following VOCs: PCE, TCE, TCA, cis 1,2-dichloroethene, 1,1-dichloroethane, and 1,1-DCE. To a limited extent, chromium is also being considered a COC. BTEX were part of the original COC list because of detections at various locations throughout the plume. BTEX eventually dropped from the COC list because the contaminants were limited to LUST facilities regulated by ADEQ's UST Program and limited in extent to beneath the Phoenix Terminal.

1.2 Process Overview

The WQARF process consists of a logical sequence of steps taken to evaluate and subsequently remediate a site contaminated with hazardous substances. A site can be any parcel(s) of land that is suspected to be polluted with hazardous process chemicals, substances or wastes. After a preliminary investigation, it may be determined that a site poses an actual hazard and/or potential risk to public health and the environment and may qualify as a registry site under the WQARF program. Once a site is designated as a WQARF registry site, the following activities may be performed sequentially:

- Preparation to perform a Remedial Investigation (RI) and Feasibility Study (FS)
- Community Involvement Plan written and Community Advisory Board (CAB) formed
- RI performed
- Beneficial uses of land and water gathered and future land uses identified (this report)
- Remedial Objectives (ROs) proposed
- FS conducted to evaluate options for clean-up
- Proposed Remedial Action Plan (PRAP) outlines preferred choice of technology for clean-up
- Record of Decision (ROD) formalizes decision on how clean-up will be performed
- Clean-up actions performed

At any time during the WQARF process, an Early Response Action (ERA) may be deemed necessary by ADEQ and implemented. This was the case at the American Linen Supply Company site at 720 West Buchanan Street in Phoenix, where an ERA was completed.

1.2.1 The Use Study

The use study is required in accordance with Arizona Administrative Code (AAC) R18-16-406.A.3, which states that the RI shall identify current and reasonably foreseeable uses of land and waters of the state. As specified in AAC R18-16-406.D, reasonably foreseeable uses of water are those likely to occur within 100 years. Information collected for the use study shall include:

- Information regarding current and reasonably foreseeable uses of water for each aquifer, including the locations and uses of existing wells, the locations and uses of any planned wells, and water management plans used by water providers.
- Information regarding current and reasonably foreseeable uses of water for surface waters.
- Information regarding current and reasonably foreseeable uses of land within the community involvement area. General land use information shall include the current type of use, density, character, and governmental jurisdictions. Future land use changes shall be considered using population projections, growth, plans for future development, and local land use plans.

1.2.2 Remedial Objectives

ROs will be based on current and reasonably foreseeable uses of land and water in the WVBA, and will be stated in terms of:

- Protecting against loss or impairment of an existing use
- Restoring, replacing, or otherwise providing for each listed use
- Time frames when action is needed to protect or provide for the use
- Projected duration of action needed

ROs will generally be expressed as a statement of intent to address reasonably foreseeable use. The proposed RO report will:

- Include evaluation and interpretation of data obtained from the use study
- Reflect public input obtained from the comment period and public meetings
- Identify “reasonably foreseeable” uses

If a use is considered reasonably foreseeable, the use will be included in the RO report along with justification/rationale. The RO report will not include an evaluation of how ROs may be achieved or a discussion of potential remedies; these issues will be addressed in the FS.

2.0 Land and Water Use Study Questionnaire

In order to obtain consistent land and water use information from specified stakeholders, a standardized land and water use study questionnaire was prepared and mailed by ADEQ to property owners, municipalities, and utilities in the WVBA. A total of 57 questionnaires were mailed; of these, completed questionnaires from the following were returned, are identified by company/facility name or address, and are included in Appendix A:

- 710 W. Buchanan
- 5727 W. Van Buren
- 6510 W. Buckeye Road
- 7300 W. Van Buren
- Action Fabricating of Arizona
- ALALP
- Americold Logistics
- Arizona Public Service
- BP West Coast Products/ARCO
- Caljet Monroe I
- City of Phoenix
- CRC
- DOE
- Dolphin.
- HEAD/Penn Racquet Sports
- LA/Yuma Freight Lines
- MCOMM
- POS
- RID
- Salt River Project (SRP) Tank Farm Substation
- Specialty Textile Services
- SRV Water User's Association
- Straight Arrow Enterprises
- Trail Boss
- Univar USA Inc.

The questionnaires requested specific information in the following areas:

- Property information
- On-site wells
- Water use
- Waste streams

The information provided in the questionnaires was used in conjunction with the references identified in Section 4.0 to perform the use identification described in Section 3.0.

3.0 Use Identification

3.1 Land Use

The entire WVBA is located within the COP. However, the WVBA abuts the City of Tolleson's easternmost boundary, which is 75th Avenue between Van Buren and the RID canal. Thus, the discussion of land use centers on the COP General Plan, most recently amended in January 2004. Arizona State law requires each city to have a General Plan that establishes policy for the city's physical development. The COP General Plan includes goals, policies, and recommendations to guide land use and neighborhood development for the next 10 to 20 years and beyond. Figures from the General Plan pertinent to the WVBA are included in Appendix B.

3.1.1 Current Land Use

The COP is comprised of 15 "urban villages". The WVBA is located in the Central City and Estrella urban villages, with the division between them being I-17 north of Durango, and 19th Avenue south of Durango. There are no village cores or special planning districts within the WVBA.

The Central City village character includes:

- Governmental mall
- Cultural, educational, and entertainment center
- Sports complexes
- Historic buildings and preservation districts
- Diversity of developed residential neighborhoods
- Multicultural and economically diverse communities
- Parks and recreation centers
- Major medical facilities
- Multimodal transportation access
- Infill incentive district and redevelopment areas
- Enterprise zone

In 2000, the Central City exhibited the following statistics:

- Employment – 108,828
- Population – 135,513
- Households – 59,247

Of the existing land use, most (28 percent) was for transportation/airport, followed by industrial (16 percent), small lot residential (11 percent), and other uses including commercial, vacant, and public.

In 2000, the Central City exhibited the following dwelling units:

- Single family detached (40 percent)
- Single family attached (6 percent)
- 2-4 units (18 percent)
- 5+ units (32 percent)
- Mobile homes (4 percent)

The Estrella Village character includes:

- Proximity to downtown Phoenix
- Freeway access
- Tres Rios Habitat and Restoration Area to the west
- Older bungalow housing in northeast portion occupied by diverse cultures; this area is also an infill incentive district
- Central portion is an employment center, containing the largest center of commerce park and industrial activity in Phoenix with a large amount of land (727 acres) available for expansion and new business
- Southwest portion has the last remaining agricultural and dairy businesses in Phoenix
- Enterprise zone
- Minimal historic residential development

In 2000, the Estrella Village exhibited the following statistics:

- Employment – 47,242
- Population – 43,379
- Households – 9,543

Of the existing land use, most (49 percent) was for agriculture, followed by industrial (18 percent), public (8 percent), and other uses including parks/open space, vacant, and developing residential.

In 2000, the Estrella Village exhibited the following dwelling units:

- Single family detached (54 percent)
- Single family attached (4 percent)
- 2-4 units (8 percent)
- 5+ units (8 percent)
- Mobile homes (26 percent)

The WVBA abuts the City of Tolleson's easternmost boundary, which is 75th Avenue between Van Buren and the RID canal. According to the City of Tolleson's General Plan (2005), Tolleson's character is summarized by its vision statement as follows:

“We will retain the foundation of our family-oriented, friendly, small town atmosphere. We will support a positive, diverse growth environment that maintains and enriches the quality of life for everyone.”

In 2000, Tolleson exhibited the following statistics:

- Employment – 12,777
- Population – 4,974
- Households – 1,432

Based on the above statistics, a number of non-Tolleson residents commute to Tolleson for employment.

Of the existing land use, most (46 percent) was agricultural/vacant, followed by industrial/warehouse (24 percent), and residential (14 percent). Land use in eastern Tolleson, adjacent to the WVBA, is primarily agricultural/vacant and industrial.

In 2000, Tolleson exhibited the following dwelling units:

- Single family (78 percent)
- Multiple family (19 percent)
- Mobile homes (3 percent)

3.1.2 Future Land Use

By 2030, the Central City is projected to exhibit the following statistics:

- Employment – 116,000 (6 percent increase)
- Population – 164,000 (20 percent increase)
- Households – 66,000 (12 percent increase)

The increase in population and households will likely be primarily due to infill housing.

By 2030, the Estrella Village is projected to exhibit the following statistics:

- Employment – 148,000 (215 percent increase)
- Population – 146,000 (240 percent increase)
- Households – 40,000 (300 percent increase)

Given the vast acreage of agricultural land available to be developed in the future, the Estrella Village is identified as a Phoenix targeted growth area, and is expected to experience significant increases in both employment and residential growth.

By 2030, Tolleson is projected to exhibit the following statistics:

- Employment – 31,000 (140 percent increase)
- Population – 6,200 (25 percent increase)
- Households – 1,800 (26 percent increase)

Land use in eastern Tolleson, is expected to be primarily commercial and industrial. Given the vast acreage of agricultural/vacant land available to be developed in the future, Tolleson is expected to experience significant increases in employment. As with current land use, a number of non-Tolleson residents will continue to commute to Tolleson for employment in the future.

Based on the land and water use study questionnaires returned to ADEQ, little significant change to respondent properties is expected to occur.

3.2 Groundwater Use

3.2.1 Existing Groundwater Quality Issues

Existing WVBA groundwater quality issues are summarized below, and maps showing the extent of groundwater contamination in 2005 are included as Appendix C (Terranext, 2007).

- The WVBA extends from 7th to 75th Avenues and from Buckeye Road to Interstate 10. This corresponds to an area approximately eight miles in length and 1.5 miles in width (approximately 12 square miles). In addition, a finger shaped plume exists between 7th and 27th Avenues between Buckeye and Lower Buckeye roads. Within the WVBA are industrial facilities that have used VOCs in former, and in some cases, current operations. Typical industrial businesses within the WVBA WQARF Registry Site include auto body repair, auto painting operations, auto repair, chemical manufacturing and distribution, dry cleaning operations, foundry operations, manufacturing operations, metal fabrication and plating, plastic manufacturing, printing operations, and vulcanizing operations.
- Based upon site-specific WVBA cross-sections, the following generalized observations regarding the alluvial unit stratigraphy of the WVBA have been developed.
 - **UAU1** This uppermost layer is comprised of loose surface soils grading downward into interfingering sand and gravel lenses; clay lenses, when present, are thin and usually characterized as clayey sands. UAU1 ranges in thickness from approximately 170 to 310 feet. Based upon the east-west cross-sections, UAU1 appears to become finer-grained west of about 75th Avenue. Except in the eastern portion of the WVBA, UAU1 also appears to become finer-grained northwards, particularly in the northwest portion of the WVBA.
 - **UAU2** This intermediate layer occurs where clay lenses increase in number until clays dominate the lithologic horizons. UAU2 is encountered at depths ranging from approximately 170 feet to 310 feet bgs, and exhibits a considerable range in thickness, from approximately 30 feet to 260 feet or greater. UAU2 appears thickest in the western portion of the WVBA. Based upon the east-west cross-sections, UAU2 appears to become more fine-grained west of about 67th Avenue. Conversely to UAU1, except in the eastern portion of the WVBA, UAU2 appears to become finer-grained southwards.
 - **MAU** The transition between the UAU and MAU is that area within the lithologic sequence characterized by at least 40 feet of material often referred to as hard brown clay

or sticky brown clay. Below this point, the lithology usually shows a marked increase in the amount of fine-grained material present. The MAU is encountered at depths ranging from approximately 260 feet to 500 feet bgs. The shallowest depth to the MAU is in the east, deepening in the west.

- Current COC for the WVBA are identified as PCE, TCE, 1,1-DCE, and to a limited extent, chromium. The highest concentration of PCE detected in groundwater was 95,000 ug/L, collected in 1998 from well DIMW-1 at the Dolphin Inc. facility. TCE was detected at its highest concentration of 1,800 ug/L in 1996 from Maricopa County Materials Management facility well PZ-01. The highest concentration of 1,1-DCE detected was 290 ug/L in a sample collected from well CT-W-03 in 1987 at the Chevron terminal in the Phoenix tank farm. The highest detected concentration of chromium was 40,500 ug/L from ADEQ well AVB72-01 in 2003.
- Water quality data for UAU1 wells for data collected in 2005 are as follows:
 - PCE contamination exceeding the AWQS extends from the eastern boundary of the WVBA to approximately 73rd Avenue, and north of the RID canal except between 67th and 71st Avenues. The northern extent of PCE contamination exceeding the AWQS appears to be limited to south of Roosevelt Street except between 51st and 59th Avenues.
 - TCE contamination exceeding the AWQS extends from the eastern boundary of the WVBA to approximately 71st Avenue, and north of the RID canal. The northern extent of TCE contamination exceeding the AWQS appears to be limited to south of Roosevelt Street except between 39th and 47th Avenues.
 - 1,1-DCE contamination exceeding the AWQS is again present in three discrete areas. In the eastern WVBA, a 1,1-DCE plume extends from the eastern boundary of the WVBA to 35th Avenue. In the north-central WVBA, a 1,1-DCE plume trends south in the vicinity of 43rd Avenue to north of Van Buren. In the western WVBA, a 1,1-DCE plume extends from 59th Avenue north of Buckeye to Van Buren and 67th Avenue.
 - Thirteen wells exceed the total chromium AWQS of 0.1 mg/l.
- Water quality data for UAU2 wells for data collected in 2005 are as follows:
 - PCE contamination exceeding the AWQS extends from approximately 19th to 75th Avenues, and north of the RID canal except between 67th and 71st Avenues. The northern extent of PCE contamination exceeding the AWQS appears to be limited to Van Buren Street in the eastern WVBA and Roosevelt Street in the western WVBA except between approximately 59th and 71st Avenues.
 - TCE contamination exceeding the AWQS extends from the eastern boundary of the WVBA to approximately 67th Avenue, and north of the RID canal. The northern extent of TCE contamination exceeding the AWQS appears to be limited to south of Van Buren Street except in the vicinity of AVB96-02.

- 1,1-DCE contamination exceeding the AWQS is again present in two discrete areas. In the eastern WVBA, a southwesterly-trending 1,1-DCE plume exceeding the AWQS extends from approximately 15th Avenue and Washington Street to 39th Avenue north of the RID canal. In the western WVBA, a 1,1-DCE plume extends from approximately 59th and 67th Avenues and north of Van Buren south to Buckeye Road.

- None of the sampled wells analyzed for total chromium exceeded the AWQS.

- Water quality data for MAU wells for data collected in 2005 are as follows:

- The only PCE concentration exceeding the AWQS was detected in the groundwater sample collected from AVB82-01 (47 ug/l).

- The only TCE concentration exceeding the AWQS was detected in the groundwater sample collected from AVB82-01 (9.2 ug/l).

- The only 1,1-DCE concentration exceeding the AWQS was detected in the groundwater sample collected from AVB82-01 (22 ug/l).

- None of the sampled wells analyzed for total chromium exceeded the AWQS.

3.2.2 Municipal Groundwater Use

3.2.2.1 Current Use

City of Phoenix

The COP Water Services Department issued a water resources plan (Plan) in 2011. The COP periodically updates the Plan to outline actions necessary to ensure an adequate water supply over the next 50 years. Portions of the Plan pertaining to potential groundwater development within WQARF areas are summarized herein; plans for specific groundwater development within the WVBA (and other WQARF sites) are not addressed in the Plan. The plan also includes water development policies. With respect to water quality, the COP manages groundwater withdrawals to contain groundwater contaminant plumes and assist in cost-effective groundwater clean-up programs.

Since 1985, groundwater use by the COP steadily declined due to the availability of Central Arizona Project (CAP) water, the development of SRP-based surface water supplies, and provisions in the State's Groundwater Code which mandates groundwater use limitations; Table 2 illustrates this decrease in use. In effect, the State Code and COP corresponding policy rely on groundwater as an essential supply to mitigate future water shortages. The COP currently meets over 95 percent of its demand with surface water sources that could be curtailed due to long-term drought in source watersheds. The COP also relies on groundwater to accommodate water system maintenance and as a back-up during temporary outages. Projected groundwater use in normal supply years is assumed to be 15,000 to 20,000 acre-feet per year (AFY) in the Plan, but could be greater during surface water shortages.

In 2010, the Arizona Department of Water Resources approved the COP application for a designation of assured water supply. This designation, a re-validation of the original approval by ADWR in 1998, signifies that the COP has sufficient renewable water supplies to support projected demand levels for the year 2025, and can maintain these supplies through the year 2110. A portion of these water supplies includes groundwater.

The COP has 20 active wells currently in production that can generate up to 28 million gallons of water per day. These wells are located at least one mile from WQARF boundaries. Due to water quality degradation (and the establishment of more stringent maximum contaminant levels - MCLs), other wells were placed on inactive status. The following summarizes the water quality impact on groundwater production capacity:

- TCE – closure of six wells (9,000 acre-feet per year) due to MCL exceedance; 14 other wells placed on inactive status (TCE detectable but below MCL)
- Pesticides – closure of eight wells (9,000 acre-feet per year) due to MCL exceedance
- Nitrate – 39 wells (68,000 acre-feet per year) abandoned, sold, or placed on inactive status due to nitrate approaching or exceeding the MCL (some of these wells also exhibit detectable VOCs)
- Chromium – seven wells (6,700 acre-feet per year) placed on inactive status

The total loss of COP well production for normal use from 1981 to 2000 due to elevated contaminant concentrations exceeds 90,000 AFY from the closure of over 60 wells. This represented 60 percent of the total production capacity of COP wells over that time frame.

The degree to which long-term groundwater production capacity will be impacted by water quality constraints in the future is difficult to predict. Treatment alternatives are being evaluated at each well to ascertain the best course of action for wells placed on inactive status.

Roosevelt Irrigation District

RID provides its members with water for agricultural irrigation. The total number of RID production wells is approximately 104. Thirty operable production wells are listed in Table 1 and plotted on Plate 1 (Appendix D). Production wells typically are pumped from March through September.

There are currently two sources of RID water. Approximately 30,000 AFY is obtained as effluent from the 23rd Avenue Wastewater Treatment Plant and approximately 135,000 AFY is obtained from pumped groundwater.

Salt River Project

SRP generally uses groundwater to supplement its surface water supply. Thus, annual use of groundwater will fluctuate depending upon the availability of surface water (Salt River Project, 1996). SRP currently has ten groundwater supply wells near the WVBA. Information regarding these wells is presented in Table 3.

City of Tolleson

The City of Tolleson currently uses four production wells. Since Tolleson currently receives most of its water from the COP, through an Inter-Governmental Agreement, these four wells are used mainly during summer months for backup supply purposes. If the COP should experience a water shortage, Tolleson would become more reliant on their production wells.

3.2.2.2 Future Use

City of Phoenix

Degraded groundwater constitutes a vast reserve of water for use in meeting the COP's future water needs. The COP maintains several wells within or adjacent to WQARF sites for emergency use and future use in meeting service area water needs; these wells could be placed back in service with the addition of wellhead treatment systems or approved blending programs. Also, the COP holds "Special Pump Rights" with SRP, which are rights to groundwater well capacity developed by SRP. In order for the COP to maintain and use these rights in the future, it may be necessary to connect SRP wells directly to the COP water distribution system; this may require the addition of wellhead treatment systems.

The use of potentially degraded groundwater is likely to be somewhat limited within the next decade, but the COP will depend more heavily on this groundwater to provide for service area water demands later in the 50-year planning horizon. The 2009 COP Groundwater Management Plan describes opportunities to develop 15 additional groundwater production wells yielding approximately 70,000 acre-feet per year. Four of these wells would be located south of the WVBA in the "Western Canal and West Phoenix" well field. These wells would be screened within the LAU, come on-line in 2020, and produce a combined 12 million gallons per day. Of these wells, the well closest to the WVBA would be located at 35th Avenue and Lower Buckeye Road, approximately 0.75 mile south of the WVBA.

Roosevelt Irrigation District

The RID was formed in 1928, after securing an agreement with SRP to pump and deliver water in 1923. SRP may take the position that this agreement will expire in 2019. RID takes the position that the agreement does not expire. If SRP prevails in its position, then RID may no longer be able to pump wells east of the Agua Fria River. This could cut RID's pumping rate by 85 percent.

Up to 30,000 AFY of additional reclaimed water from the 23rd Avenue plant could be provided to RID in lieu of groundwater pumpage. RID, in cooperation with the COP, holds a groundwater savings facility (GSF) permit for this additional reclaimed water. The GSF permit will allow the COP to accrue water storage credits for pumpage elsewhere. The COP currently applies the credits to groundwater pumped to supply the planned Rio Salado Habitat Restoration Project along the Salt River from 19th Avenue to 24th Street; which is outside the WVBA. Thus, implementation of the GSF will result in the reduction of groundwater pumpage within the WVBA. As farmland currently served by the RID becomes more and more developed, less

water will be needed from RID. As farmland currently being served by the RID becomes more and more developed, less water will be needed from the RID.

RID indicated in a revised Land and Water Use Study Questionnaire submitted on January 12, 2010 to ADEQ that their current use of groundwater from the RID water supply wells is for irrigation but the future use may be drinking water supply for residential and commercial development within the RID water district. The survey indicated that RID was in discussions with west valley water providers regarding delivery of water for municipal use. On September 23, 2010, the Town of Buckeye submitted a letter to ADEQ indicating that the Town of Buckeye was very interested in the utilization of the treated water from the RID ERA system in the future. On September 24, 2010, the City of Goodyear issued a letter expressing support for the RID remediation effort and indicated that Goodyear was interested in the utilization treated water from the RID ERA system in the future.

Salt River Project

Included in Table 3 is information on anticipated future water use and pumping capacity. As the area becomes more urbanized, wells with suitable water quality may be shifted to municipal use.

Based on specific well information, the most reliable method of projecting future aquifer use by SRP may be through evaluation of their past aquifer use. The historical annual pumpage for each of the ten wells averaged during the past 20 years is included in Table 3. The sum total of this historical annual pumpage is 15,820 acre-feet; thus, this may represent the future average annual pumpage by SRP in and near the WVBA.

SRP indicated in its Land and Water Use Study Questionnaire submitted on September 21, 2007 to ADEQ that their current use of groundwater from the SRP water supply wells is for irrigation but the future use may be drinking water supply for residential and commercial development.

3.2.3 Commercial/Industrial/Domestic Groundwater Use

3.2.3.1 Current Use

Sixty-four of the 163 wells listed on Table 1 and plotted on Plate 1 list water use as commercial/industrial/domestic. On July 21, 1994, ADEQ offered the West Van Buren Group the opportunity to voluntarily participate in a private well survey. ADEQ had planned to conduct a survey of commercial/industrial/domestic wells within a portion of the WVBA. The survey conducted in 1994 supplemented previous ADEQ efforts, and a domestic well survey conducted by Maricopa County Department of Environmental Services.

In February, 1995 outreach letters were sent to 48 probable domestic well owners. As of March 1995 only 18 responses were received. Of the 18 responses, three reported operational private domestic wells, 12 reported a municipal water supply and three reported private wells not used for consumptive purposes. A further attempt was made to contact well owners by telephone. Successful contact was made with 17 well owners, of which nine allowed access to property for well sampling.

On March 31, 1995, one groundwater sample was collected from each of the ten domestic wells available to sample on the nine properties. Groundwater samples from two of the wells sampled contained contaminants. The first well exhibited detectable concentrations of TCE and PCE below MCLs. This well was registered to Southwest Trail Boss, 345 South 83rd Avenue, Phoenix, Arizona. The ADWR number for this well is 55-636351, and is number 31 on Table 1. According to the completed use questionnaire, this well is not used for drinking purposes.

The second well exhibited detectable concentrations of chloroform, TCE and PCE. The concentration of TCE (6.9 ug/L) was above the MCL of 5.0 ug/L. This well was registered to the Greenwood Memory Lawn, 2300 West Van Buren, Phoenix, Arizona. The ADWR number for this well is 55-528358. The well with contaminated groundwater (55-528358) was not listed on the BE&K/Terranext well survey conducted in March 2000.

Of the received completed use questionnaires, commercial/industrial/domestic water supply wells are located on the following properties:

- Straight Arrow Enterprises (one well for domestic and landscaping uses)
- 7300 W. Van Buren (domestic and livestock watering uses)
- 5727 W. Van Buren (domestic use for two residences)
- 6510 W. Buckeye (unidentified use)
- U.S. Department of Energy (one well for irrigation)
- Arizona Public Service (seven wells for industrial use)

3.2.3.2 Future Use

Based on the responses in the questionnaires received, there are no planned changes in the future use of commercial/industrial/domestic wells.

3.3 Canal Water Use

3.3.1 Current Use

RID provides its members with water for agricultural irrigation. RID water is derived from two sources, but it is all delivered via a canal system. The Roosevelt Canal runs through a portion of the WVBA along its western boundary, and this canal is fed via wells within the WVBA that discharge into laterals that flow south into the canal. A smaller second RID canal flow west along the south side of Van Buren beginning at RID well 114 located on the west side of I-17. RID water is mostly used for crops not used for human consumption. The RID water users are downgradient of the WVBA; no water in the RID canal is used within the WVBA.

3.3.2 Future Use

RID indicated in a revised Land and Water Use Study Questionnaire submitted on January 12, 2010 to ADEQ that their current use of groundwater from the RID water supply wells is for irrigation but the future use may be drinking water supply for residential and commercial development within the RID water district. The survey indicated that RID was in discussions

with west valley water providers regarding delivery of water for municipal use. On September 23, 2010, the Town of Buckeye submitted a letter to ADEQ indicating that the Town of Buckeye was very interested in the utilization of the treated water from the RID ERA system in the future. On September 24, 2010, the City of Goodyear issued a letter expressing support for the RID remediation effort and indicated that Goodyear was interested in the utilization treated water from the RID ERA system in the future.

3.4 Surface Water Use

3.4.1 Current Use

The Salt River is located approximately 1 to 1.5 miles south of the WVBA. The Salt River flows west, and acts as the main drainage for the greater Phoenix area. The Salt River is dry most of the time due to a series of dams and other upstream water retention structures.

3.4.2 Future Use

SRP indicated in its Land and Water Use Study Questionnaire submitted on September 21, 2007 to ADEQ that their current use of groundwater from the SRP water supply wells is for irrigation but the future use may be drinking water supply for residential and commercial development.

4.0 References

City of Phoenix, 2000, Water Resources Plan

City of Phoenix, 2004, General Plan

City of Phoenix, 2009, Groundwater Management Plan

City of Phoenix, 2011, Water Resources Plan

City of Tolleson, 2005, General Plan

Salt River Project, 1996, Assured Water Supply Study for Salt River Project Member Lands

Terranext, 2007, Draft Remedial Investigation Report, West Van Buren WQARF Registry Site, prepared for ADEQ

TABLE 1
Wells Registered with the Department of Water Resources in the West Van Buren WQARF Registry Site

WELL NUMBER	ADWRS	WPN	AMS	REV	QTR	WELL TYPE	WELLSET	WATERUSE	INSTALLED	DRILLER	WELLDEPTH	WATERLEVEL	CASINGTYPE	ID	DIA	FLUPTYPE	EASTNAME	LOC	LASTNAME	COMPANY	ADDRESS	CITY	STATE	
1	55-639821	1N	1E	1		DAA EXEMPT	WATER PRODUCTION	DOMESTIC			0	0	STEEL - PERFORATED OR SLOTTED CASING	0	6			BIRMINGHAM,W		6403 W MCDONALD	PHOENIX	AZ		
2	55-800713	1N	1E	1		CCD EXEMPT	WATER PRODUCTION	DOMESTIC			0	225	180	0	2				BOYES,B		6368 W BELL RD	GLENDALE	AZ	
3	55-605569	1N	1E	1		CBB EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/30		0	0	STEEL - PERFORATED OR SLOTTED CASING	0	8					SOUTHWEST MACK CORPORATIO	6991 E CAMELBACK RD #C 302	SCOTTSDALE	AZ	
4	55-630237	1N	1E	1		BAB EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/47		0	0		0	0						RT 1 BOX 834	PHOENIX	AZ	
5	55-630901	1N	1E	2		BA EXEMPT	WATER PRODUCTION	DOMESTIC	6/1/58		0	650	0	0	0						RT 4 BOX 822	PHOENIX	AZ	
6	55-607728	1N	1E	2		CCC NON-EXEMPT	WATER PRODUCTION	UTILITY (WATER CO)	11/6/56		97	910	102	STEEL - PERFORATED OR SLOTTED CASING	910	20	TURBINE	3572	X		SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
7	55-607228	1N	1E	2		BBB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	7/14/51		0	800	116	STEEL - PERFORATED OR SLOTTED CASING	800	20		1962			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
8	55-620583	1N	1E	2		DA NON-EXEMPT	WATER PRODUCTION	STOCK			0	400	190	STEEL - PERFORATED OR SLOTTED CASING	400	16		80			BROOKS JR,M B	RT 4 BOX 334	PHOENIX	AZ
9	55-519125	1N	1E	3		BCA NON-SERVICE	WATER PRODUCTION	MUNICIPAL			7	0	0	0	0						TOLLESON, CITY OF,	9555 W VAN BUREN	TOLLESON	AZ
10	55-519437	1N	1E	3		BDB NON-EXEMPT	WATER PRODUCTION	MUNICIPAL	1/13/88		7	810	85	STEEL - PERFORATED OR SLOTTED CASING	710	16	TURBINE	1200	X		TOLLESON, CITY OF,	9555 W VAN BUREN	TOLLESON	AZ
11	55-621647	1N	1E	3		DAA EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/48		0	400	190	STEEL - PERFORATED OR SLOTTED CASING	390	6		21			STEWART TITLE&TRUST,	PO BOX 33059	PHOENIX	AZ
12	55-607692	1N	1E	3		ABB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	7/1/43		0	274	161	OTHER - BLACK STEEL - IRON - SEAMLESS	233	10		3072			SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
13	55-607735	1N	1E	3		ABB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	9/9/49		97	800	129	STEEL - PERFORATED OR SLOTTED CASING	800	20	TURBINE	3200	X		SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
14	55-636517	1N	1E	3		CDC EXEMPT	WATER PRODUCTION	DOMESTIC	3/3/80		48	646	105	STEEL - PERFORATED OR SLOTTED CASING	633	8		35	X		POPOFF,A	3217 W ORANGEWOOD AV	PHOENIX	AZ
15	55-607230	1N	1E	3		BBB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	11/25/43		0	850	114	STEEL - PERFORATED OR SLOTTED CASING	850	20		2038			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
16	55-607384	1N	1E	3		CCD EXEMPT	WATER PRODUCTION	DOMESTIC	4/21/37		0	850	48	STEEL - PERFORATED OR SLOTTED CASING	602	4		0			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
17	55-607383	1N	1E	3		CCD EXEMPT	WATER PRODUCTION	DOMESTIC	7/28/49		0	596	83	STEEL - PERFORATED OR SLOTTED CASING	568	9		0			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
18	55-518899	1N	1E	10		AAA SERVICE	WATER PRODUCTION	MUNICIPAL	12/8/87		7	680	87	STEEL - PERFORATED OR SLOTTED CASING	680	16		0	X		TOLLESON, CITY OF,	9555 W VAN BUREN ST	TOLLESON	AZ
19	55-514144	1N	1E	10		AAA SERVICE	WATER PRODUCTION	MUNICIPAL			0	0	0	0	0						9555 W VAN BUREN ST	TOLLESON	AZ	
20	55-500078	1N	1E	10		CBA NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	9/23/81		113	603	96	STEEL - PERFORATED OR SLOTTED CASING	603	1		805	X		SUNLAND BEEF CO.,	651 S 91ST AVE	TOLLESON	AZ
21	55-608436	1N	1E	10		CCC NON-EXEMPT	WATER PRODUCTION	UTILITY (WATER CO)	4/6/53		0	682	74		682	20		3650			SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
22	55-618806	1N	1E	10		CBB NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	6/29/67		0	585	0	OTHER - BLACK STEEL - IRON - SEAMLESS	586	20		1300			ESMARK INC,	55 E MONROE	CHICAGO	IL
23	55-621645	1N	1E	10		AAA NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1/1/39		0	765	185	STEEL - PERFORATED OR SLOTTED CASING	400	14		2000			NEMER, STANLEY ETAL,	6354 PARDALE DR 310	MINNEAPOLIS	MN
24	55-621646	1N	1E	10		ACC EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/70		0	353	0	STEEL - PERFORATED OR SLOTTED CASING	353	8		31			MISSION AIRPORT PARK,	1150 W CENTRAL #D	BREA	CA
25	55-617700	1N	1E	10		DDD NON-EXEMPT	WATER PRODUCTION	IRRIGATION	10/18/21		0	150	0	STEEL - PERFORATED OR SLOTTED CASING	150	18		0			SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
26	55-564695	1N	1E	11		CCD MONITOR	WATER PRODUCTION	MONITORING			0	91	70	PLASTIC OR PVC	90	4		0	X					
27	55-608362	1N	1E	11		CCB NON-EXEMPT	WATER PRODUCTION	UTILITY (WATER CO)	12/1/73		0	800	75	STEEL - PERFORATED OR SLOTTED CASING	800	20		1975			SALY RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
28	55-607624	1N	1E	11		ADC NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	6/28/88		0	410	116	WALLED OR SHORED	320	12		60			SOUTHWEST MILLING CO,	PO BOX 23177	PHOENIX	AZ
29	55-806895	1N	1E	11		AAB EXEMPT	WATER PRODUCTION	NONE			572	180	0	STEEL - PERFORATED OR SLOTTED CASING	0	5		0			SWC 75TH AVE PTRS,	1817 N 3RD ST #100	PHOENIX	AZ
30	55-638111	1N	1E	11		AA EXEMPT	WATER PRODUCTION	DOMESTIC			0	210	160	STEEL - PERFORATED OR SLOTTED CASING	210	6		30			HUTCHISON,E	RT 4 BOX 338	PHOENIX	AZ
31	55-636351	1N	1E	11		EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/61		0	225	100	STEEL - PERFORATED OR SLOTTED CASING	225	6		25			VALENTINE,V L	345 S 83RD AVE	PHOENIX	AZ
32	55-607227	1N	1E	11		ACB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1/12/72		0	790	84	STEEL - PERFORATED OR SLOTTED CASING	790	18		1940			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
33	55-617112	1N	1E	11		ADD NON-EXEMPT	WATER PRODUCTION	IRRIGATION	6/1/57		0	800	87	STEEL - PERFORATED OR SLOTTED CASING	800	20		2496			SALT RIVER PROJECT,	PO BOX 1980	PHOENIX	AZ
34	55-806097	1N	1E	11		CCB EXEMPT	WATER PRODUCTION	NONE			298	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	6		0			TOLLESON, CITY OF,	9555 W VAN BUREN	TOLLESON	AZ
35	55-633659	1N	1E	12		B EXEMPT	WATER PRODUCTION	DOMESTIC	6/1/45		0	230	148	STEEL - PERFORATED OR SLOTTED CASING	230	6		30			AZ PROPERTY INVEST,	222 W LINGER LANE	PHOENIX	AZ
36	55-638600	1N	1E	12		CBB EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/40		0	280	120	STEEL - PERFORATED OR SLOTTED CASING	280	6		20			FREEZER SVC OF ARIZ,	455 W 75TH AVE	PHOENIX	AZ
37	55-807206	1N	1E	12		BBB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	7/16/42		0	622	95	STEEL - PERFORATED OR SLOTTED CASING	622	20		2374			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
38	55-640377	1N	1E	12		A EXEMPT	WATER PRODUCTION	DOMESTIC			0	100	96	STEEL - PERFORATED OR SLOTTED CASING	100	6		10			JUAREZ,E T	6805 W VAN BUREN	PHOENIX	AZ
39	55-607226	1N	1E	12		DBB NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/4/52		0	600	86	STEEL - PERFORATED OR SLOTTED CASING	532	20		2419			ROOSEVELT IRR DIST,	PO BOX 95	BUCKEYE	AZ
40	55-635558	1N	1E	12		DA EXEMPT	WATER PRODUCTION	DOMESTIC	3/1/46		0	280	80	OTHER - BLACK STEEL - IRON - SEAMLESS	240	6		35			HAYES,C	RT 3 BOX 1266	PHOENIX	AZ
41	55-639066	1N	1E	12		DD EXEMPT	WATER PRODUCTION	DOMESTIC			0	240	113	STEEL - PERFORATED OR SLOTTED CASING	240	6		31			TREND HOMES OF ARIZONA	1201 S ALMA SCHOOL RD SUITE 3700	MESA	AZ
42	55-400041	1N	1E	13		BAA EXEMPT	WATER PRODUCTION	DOMESTIC			632	0	0	0	0						235 S EL DORADO	MESA	AZ	
43	55-619763	1N	1E	13		ADD EXEMPT	WATER PRODUCTION	DOMESTIC			0	151	120	STEEL - PERFORATED OR SLOTTED CASING	151	6		13			L D S,	235 S EL DORADO	MESA	AZ
44	55-619746	1N	1E	13		ADD NON-EXEMPT	WATER PRODUCTION	IRRIGATION			0	0	0	0	0						235 S EL DORADO	MESA	AZ	
45	55-617331	1N	1E	13		B NON-EXEMPT	WATER PRODUCTION	DOMESTIC			0	0	0	OTHER - BLACK STEEL - IRON - SEAMLESS	0	8		0			7201 W BUCKEYE	PHOENIX	AZ	
46	55-635541	1N	1E	13		CC EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/60		0	350	60	STEEL - PERFORATED OR SLOTTED CASING	350	8		20			DUNCAN,C L	RT 5 BOX 1141 C	PHOENIX	AZ
47	55-803675	1N	1E	13		CC EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/70		0	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	0		35			LANDRUM,J	RT 5 BOX 1141	PHOENIX	AZ
48	55-638083	1N	1E	13		ABA EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/37		0	300	150	STEEL - PERFORATED OR SLOTTED CASING	0	6		35			TROMBLEY,R J	RT 4 BOX 369-7035	BUCKEYE	AZ
49	55-507637	1N	1E	14		BAB NON-SERVICE	WATER PRODUCTION	INDUSTRIAL	4/8/85		4	1445	73		1133	10	SUBMERSIBLE	52	X		B & T ENTERPRISES,	2040 W MCDOWELL RD	PHOENIX	AZ
50	55-634235	1N	1E	14		CAA EXEMPT	WATER PRODUCTION	DOMESTIC	9/1/50		533	376	0		361	6		30			STARDUST DEVELOPMENT INC	6730 N SCOTTSDALE RD #230	SCOTTSDALE	AZ
51	55-618655	1N	1E	14		BAB NON-EXEMPT	WATER PRODUCTION	DOMESTIC			0	0	0	0	0						B & T ENTERPRISES,	2040 W MCDOWELL RD	PHOENIX	AZ
52	55-640368	1N	1E	14		D EXEMPT	WATER PRODUCTION	DOMESTIC	12/1/78		0	308	0	0	0						SWIFT TRANSPORT CO,	5601 W MOHAVE	PHOENIX	AZ
53	55-633946	1N	1E	14		CDD EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/41		533	370	120	STEEL - PERFORATED OR SLOTTED CASING	125	8		15			STARDUST DEVELOPMENT INC	6730 N SCOTTSDALE RD #230	SCOTTSDALE	AZ
54	55-602136	1N	1E	14		DAD EXEMPT	WATER PRODUCTION	DOMESTIC			0	305	80	STEEL - PERFORATED OR SLOTTED CASING	295	8		14			MCBRIDE,J L	RT 4 BOX 356	PHOENIX	AZ
55	55-625474	1N	1E	14		DAD NON-EXEMPT	W																	

TABLE 1
Wells Registered with the Department of Water Resources in the West Van Buren WQARF Registry Site

WELL NUMBER	ADWRS	INW	ENCL	SEC	QTR	DEPT TYPE	WELL USE	WATER USE	INSTALLED	DRILLER	WELL DEPTH	WATER ELEV	CASING TOP	ID	DIA	HEMPT TYPE	LASTNAME	LOG	LASTNAME	COMPANY	ADDRESS	CITY	STATE	
84	55-639889	1N	2E	7	DC	EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/55	0	0	0		0	0		OWEN, F L				RT 4 BOX 426	PHOENIX	AZ	
85	55-806689	1N	2E	8	DDA	EXEMPT	WATER PRODUCTION	DOMESTIC		269	0	0		0	0		HELLER REAL ESTATE,				500 W MONROE 1500	CHICAGO	IL	
86	55-636579	1N	2E	8	BD	EXEMPT	WATER PRODUCTION	DOMESTIC			0	500	0		0	8		SMITH, H				735 N 19TH AVE	PHOENIX	AZ
87	55-629061	1N	2E	8	ABD	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	12/31/55	0	300	132	STEEL - PERFORATED OR SLOTTED CASING	300	12						PO BOX 27940	TUCSON	AZ	
88	55-800046	1N	2E	8	DA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION		0	0	0		0	0						2930 E CAMELBACK RD	PHOENIX	AZ	
89	55-634055	1N	2E	8		EXEMPT	WATER PRODUCTION	DOMESTIC	12/27/62	0	950	118	OTHER - BLACK STEEL - IRON - SEAMLESS	920	8						5727 W VAN BUREN	PHOENIX	AZ	
90	55-800985	1N	2E	8	ACD	EXEMPT	WATER PRODUCTION	INDUSTRIAL		0	480	300	STEEL - PERFORATED OR SLOTTED CASING	480	4						PO BOX 3627	EL PASCO	TX	
91	55-605274	1N	2E	8	A	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	10/1/60	0	275	0		0	0						3200 NW YEON AVE	PORTLAND	OR	
92	55-607204	1N	2E	8	BBB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	5/27/43	0	414	97	STEEL - PERFORATED OR SLOTTED CASING	414	24						PO BOX 95	BUCKEYE	AZ	
93	55-607203	1N	2E	8	BAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	11/22/40	0	284	100	STEEL - PERFORATED OR SLOTTED CASING	276	24						PO BOX 95	BUCKEYE	AZ	
94	55-806836	1N	2E	8	DAA	EXEMPT	WATER PRODUCTION	NONE		363	176	0	STEEL - PERFORATED OR SLOTTED CASING	0	20						500 W MONROE ST	CHICAGO	IL	
95	55-800109	1N	2E	8	A	EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/68	0	0	0		0	0						5445 W MADISON ST	PHOENIX	AZ	
96	55-631099	1N	2E	8	BAA	EXEMPT	WATER PRODUCTION	INDUSTRIAL	1/1/67	0	540	160	STEEL - PERFORATED OR SLOTTED CASING	527	6						3312 E BERRIDGE LN	PARADISE VALLEY	AZ	
97	55-610057	1N	2E	9	D	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	7/27/50	0	357	150	STEEL - PERFORATED OR SLOTTED CASING	352	10						PO BOX 6457	PHOENIX	AZ	
98	55-607201	1N	2E	9	AAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	4/1/57	0	500	104	STEEL - PERFORATED OR SLOTTED CASING	480	24						PO BOX 95	BUCKEYE	AZ	
99	55-613082	1N	2E	9	DCC	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	1/31/49	0	1942	273	STEEL - PERFORATED OR SLOTTED CASING	1942	16						PO BOX 21666	PHOENIX	AZ	
100	55-613081	1N	2E	9	DDD	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	6/30/79	0	1809	0	STEEL - PERFORATED OR SLOTTED CASING	1809	16						PO BOX 21666	PHOENIX	AZ	
101	55-613079	1N	2E	9	CDB	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	8/1/76	0	1800	139	STEEL - PERFORATED OR SLOTTED CASING	1800	20						PO BOX 21666	PHOENIX	AZ	
102	55-626785	1N	2E	9	CCC	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/50	0	180	0	STEEL - PERFORATED OR SLOTTED CASING	0	5						PO BOX 2988	PHOENIX	AZ	
103	55-626783	1N	2E	9	BBB	NON-EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/50	0	76	0	STEEL - PERFORATED OR SLOTTED CASING	0	3						PO BOX 2988	PHOENIX	AZ	
104	55-613083	1N	2E	9	DBB	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	11/1/48	0	1820	321	STEEL - PERFORATED OR SLOTTED CASING	1820	20						PO BOX 21666	PHOENIX	AZ	
105	55-613084	1N	2E	9	DAC	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	8/1/48	0	1793	350	STEEL - PERFORATED OR SLOTTED CASING	1793	16						PO BOX 21666	PHOENIX	AZ	
106	55-607202	1N	2E	9	BBB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	5/18/57	0	500	104	STEEL - PERFORATED OR SLOTTED CASING	406	20						PO BOX 95	BUCKEYE	AZ	
107	55-607221	1N	2E	9	CBC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	4/29/65	0	1800	90	STEEL - PERFORATED OR SLOTTED CASING	1785	20						PO BOX 95	BUCKEYE	AZ	
108	55-626784	1N	2E	9	CCA	NON-EXEMPT	WATER PRODUCTION	DOMESTIC		0	180	0	STEEL - PERFORATED OR SLOTTED CASING	0	10						PO BOX 2988	PHOENIX	AZ	
109	55-804260	1N	2E	10	CCA	EXEMPT	WATER PRODUCTION	IRRIGATION		0	357	0	STEEL - PERFORATED OR SLOTTED CASING	0	10						ENERGY DEPT OF,	PHOENIX	AZ	
110	55-636766	1N	2E	10	ACA	EXEMPT	WATER PRODUCTION	INDUSTRIAL	1/1/43	0	320	110		280	16						3501 W VAN BUREN	PHOENIX	AZ	
111	55-607200	1N	2E	10	AAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/20/43	0	454	102	STEEL - PERFORATED OR SLOTTED CASING	454	24						PO BOX 95	BUCKEYE	AZ	
112	55-640367	1N	2E	10	CAA	EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/72	0	110	95	STEEL - PERFORATED OR SLOTTED CASING	100	9						RT 1 BOX 560	LAVEEN	AZ	
113	55-803793	1N	2E	10		EXEMPT	WATER PRODUCTION	DOMESTIC	6/9/73	0	123	0		0	0						3641 W DOBBINS	LAVEEN	AZ	
114	55-607218	1N	2E	10	CCB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/9/59	0	500	82	STEEL - PERFORATED OR SLOTTED CASING	500	20						PO BOX 95	BUCKEYE	AZ	
115	55-607198	1N	2E	11	AAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	1/24/53	0	415	92	STEEL - PERFORATED OR SLOTTED CASING	415	20						PO BOX 95	BUCKEYE	AZ	
116	55-607199	1N	2E	11	AAC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	9/15/43	0	650	88	STEEL - PERFORATED OR SLOTTED CASING	650	16						PO BOX 95	BUCKEYE	AZ	
117	55-631220	1N	2E	11	BC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION		0	194	76	STEEL - PERFORATED OR SLOTTED CASING	0	0						3310 N 10TH AVE	PHOENIX	AZ	
118	55-836149	1N	2E	11	A	EXEMPT	WATER PRODUCTION	IRRIGATION		0	0	0		0	5						3323 W LINCOLN ST	PHOENIX	AZ	
119	55-607215	1N	2E	11	CBC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	12/29/64	0	1800	75	STEEL - PERFORATED OR SLOTTED CASING	1775	24						PO BOX 95	BUCKEYE	AZ	
120	55-607215	1N	2E	11	CBC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	12/29/64	0	1800	75	STEEL - PERFORATED OR SLOTTED CASING	1775	24						PO BOX 95	BUCKEYE	AZ	
121	55-806805	1N	2E	12	AAA	EXEMPT	WATER PRODUCTION	DOMESTIC	5/13/83	127	150	80	STEEL - PERFORATED OR SLOTTED CASING	150	8						408 S 23RD AVE	PHOENIX	AZ	
122	55-800748	1N	2E	12	CAA	NON-EXEMPT	WATER PRODUCTION	INDUSTRIAL	6/15/62	0	480	125		0	12						19TH AVE COMMERCIAL,	PHOENIX	AZ	
123	55-607197	1N	2E	12	BAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	9/30/58	0	250	130	STEEL - PERFORATED OR SLOTTED CASING	0	9						PO BOX 6690	PHOENIX	AZ	
124	55-607210	1N	2E	12	CCB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/11/53	0	395	86	STEEL - PERFORATED OR SLOTTED CASING	395	20						PO BOX 95	BUCKEYE	AZ	
125	55-607210	1N	2E	12	CCB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	10/10/40	0	302	78	STEEL - PERFORATED OR SLOTTED CASING	302	24						PO BOX 95	BUCKEYE	AZ	
126	55-607209	1N	2E	13	CDD	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/28/60	0	400	55	STEEL - PERFORATED OR SLOTTED CASING	400	24						PO BOX 95	BUCKEYE	AZ	
127	55-607208	1N	2E	13	DDA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	2/26/97	215	440	76	OTHER - BLACK STEEL - IRON - SEAMLESS	440	24						103 W BASELINE RD	BUCKEYE	AZ	
128	55-607196	1N	2E	13	ABD	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	8/4/52	0	440	61	STEEL - PERFORATED OR SLOTTED CASING	428	24						PO BOX 95	BUCKEYE	AZ	
129	55-607211	1N	2E	14	AAD	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	6/24/52	0	420	63	STEEL - PERFORATED OR SLOTTED CASING	420	24						PO BOX 95	BUCKEYE	AZ	
130	55-607216	1N	2E	14	BBC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	6/29/52	0	425	65	STEEL - PERFORATED OR SLOTTED CASING	425	24						PO BOX 95	BUCKEYE	AZ	
131	55-607213	1N	2E	14	CDD	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	10/26/65	0	1800	54	STEEL - PERFORATED OR SLOTTED CASING	1800	24						PO BOX 95	BUCKEYE	AZ	
132	55-607214	1N	2E	14	CCB	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	5/7/68	0	800	55	STEEL - PERFORATED OR SLOTTED CASING	800	24						PO BOX 95	BUCKEYE	AZ	
133	55-546674	1N	2E	15	ACC	EXEMPT	WATER PRODUCTION	DOMESTIC	12/9/94	117	180	145	STEEL - PERFORATED OR SLOTTED CASING	180	6						715 W BASELINE #1	TEMPE	AZ	
134	55-500030	1N	2E	15	CDC	EXEMPT	WATER PRODUCTION	DOMESTIC	9/2/81	17	410	80	STEEL - PERFORATED OR SLOTTED CASING	400	8						4020 W LOWER BUCKEYE	PHOENIX	AZ	
135	55-607217	1N	2E	15	ACC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	3/9/57	0	540	59	STEEL - PERFORATED OR SLOTTED CASING	445	24						PO BOX 95	BUCKEYE	AZ	
136	55-566300	1N	2E	15	BDA	EXEMPT	WATER PRODUCTION	DOMESTIC		200	200	140	STEEL - PERFORATED OR SLOTTED CASING	200	6						120 W BALBOA DRIVE	TEMPE	AZ	
137	55-607219	1N	2E	15	BCC	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	5/26/52	215	449	72	STEEL - PERFORATED OR SLOTTED CASING	449	20						PO BOX 95	BUCKEYE	AZ	
138	55-607220	1N	2E	16	BDD	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	5/13/52	0	460	61	STEEL - PERFORATED OR SLOTTED CASING	460	20						PO BOX 95	BUCKEYE	AZ	
139	55-624227	1N	2E	16	CCC	NON-EXEMPT	WATER PRODUCTION	DOMESTIC		0	0	0		0	0						5601 WEST MOHAVE	PHOENIX	AZ	
140	55-806640	1N	2E	16	BAB	EXEMPT	WATER PRODUCTION	NONE		0	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	4						6263 N SCOTTSDALE RD	SCOTTSDALE	AZ	
141	55-806642	1N	2E	16	BAB	EXEMPT	WATER PRODUCTION	NONE		0	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	6						6263 N SCOTTSDALE RD	SCOTTSDALE	AZ	
142	55-624229	1N	2E	16	CCC	NON-EXEMPT	WATER PRODUCTION	DOMESTIC		0	0	0		0	0						5601 WEST MOHAVE	PHOENIX	AZ	
143	55-806641	1N	2E	16	BAB	EXEMPT	WATER PRODUCTION	NONE		0	0	0	STEEL - PERFORATED OR SLOTTED CASING	0	4						6263 N SCOTTSDALE RD	SCOTTSDALE	AZ	
144	55-640180	1N	2E	17	CB	EXEMPT	WATER PRODUCTION	DOMESTIC	1/1/51	0	0	0		0	0						RT 4 BOX 426	PHOENIX	AZ	
145	55-631572	1N	2E	17	D	EXEMPT	WATER PRODUCTION	DOMESTIC		0	207	0	OTHER - BLACK STEEL - IRON - SEAMLESS	207	8						RT 4 BOX 466	PHOENIX	AZ	
146	55-607223	1N	2E	17	CAA	NON-EXEMPT	WATER PRODUCTION	IRRIGATION	8/7/47	0	500	70	STEEL - PERFORATED OR SLOTTED CASING	496	20						PO BOX 95	BUCKEYE	AZ	
147	55-640020	1N	2E	17	BB	EXEMPT	WATER PRODUCTION	DOMESTIC		0	0	175		0	0						1444 S 59TH AVE	PHOENIX	AZ	
148	55-632813	1N	2E	17	AAD	EXEMPT	WATER PRODUCTION	DOMESTIC		4	430	155	STEEL - PERFORATED OR SLOTTED CASING	260	8						1414 S			

Table 2

TOTAL SERVICE AREA WATER USE HISTORY BY SOURCE ⁽¹⁾ (1,000 Acre-Feet)									
Year	SRP Assoc. ⁽⁵⁾ / Decreed Appropriative	SRP ⁽⁶⁾ Normal Flow	SRP ⁽⁷⁾ No- Charge	Gate- water	Ground- water	Purchased from Scottsdale	CAP	Reclaimed Water Exchange (Salt/Verde)	Total
1985	88	-	72	57	54	-	-	-	271
1986	143	-	13	41	65	-	13	-	275
1987	128	-	31	38	35	7	36	-	275
1988	153	-	10	50	24	5	37	-	279
1989	167	-	1	36	21	4	62	-	291
1990	151	-	1	3	25	3	85	-	268
1991	148	-	23	45	25	3	34	-	278
1992	64	-	88	46	12	0	46	-	256
1993	91	-	62	43	12	0	61	-	269
1994	96	64	0	18	19	0	71	-	268 ⁽²⁾
1995	87	48	46	10	19	0	88	7	305 ⁽²⁾
1996	139	51	0	31	23 ⁽³⁾	0	72	22	338
1997	108	65	0	10	15 ⁽⁴⁾	0	108	23	329
1998	97	67	12	16	13	0	98	15	318 ⁽²⁾

(1) Note: Total Annual Use may not match "Total Water Use" as defined on ADWR "Total Water Use" Summary Reports.

(2) Total reduced for filter backwash to canal credited by ADWR.

(3) The groundwater volume includes 5,534 acre-feet of groundwater delivered by SRP.

(4) The groundwater volume includes 3,147 acre-feet of groundwater delivered by SRP.

(5) Also referred to as stored and developed water.

(6) Prior to 1994, SRP reported normal flow deliveries as part of Decreed Appropriative water.

(7) Allocated during reservoir spill events.

Taken from City Of Phoenix Water Resources Plan update 2000, July 2000.

Table 3

Information for SRP wells in the vicinity of the area bounded by 7th Street to 91st Avenue and McDowell to Lower Buckeye Roads.

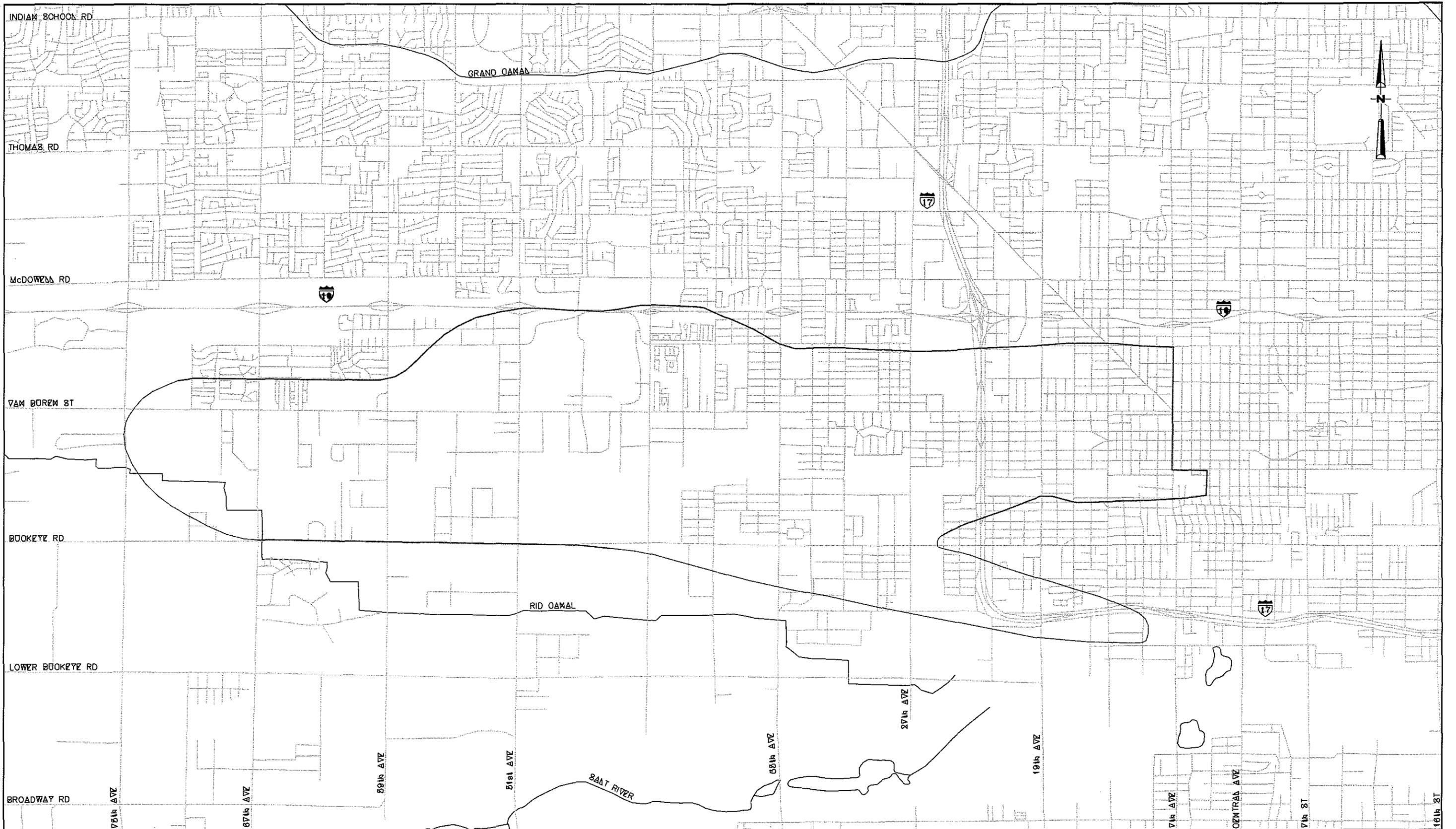
SRP Well ID	Approx. Location	ADWR Well Registration Number	Perforated Interval	Pumping Capacity (gpm)	Historic Annual Pumpage (20 yr. Avg.)	Historic Water Use	Current Water Use	Anticipated Future Water Use	Anticipated Future Pumping Capacity
3E-4N	91 ST AVE / BUCKEYE	55-6084	150'-662'	3650	1382	AG	AG	AG/MUNI	3650
3.5E-6N	83 RD AVE / MCDOWELL	55-607692	200'-585'	3200	1119	AG	AG	AG/MUNI	3200
4E-4.2N	83 RD AVE / BUCKEYE	55-608362	325'-800'	1975	940	AG	AG	AG/MUNI	1975
4E-5N	83 RD AVE / VAN BUREN	55-607728	300'-898'	3572	1939	AG	AG	AG/MUNI	3572
5E-4.5N	75 TH AVE / S.P.R.R.	55-617112	300'-800'	2496	1438	AG	AG	AG/MUNI	2496
5E-6N	75 TH AVE / MCDOWELL	55-608388	170'-685'	3719	2049	AG	AG	AG/MUNI	3719
6E-6.4N	67 TH AVE / ENCANTO	55-608384	180'-685'	4270	2172	AG	AG	AG/MUNI	4270
7E-3N	59 TH AVE / LOWER BUCKEYE	55-607727	200'-780'	4426	1350	AG	AG	AG/MUNI	4426
7E-6.8N	61 ST AVE / VIRGINIA	55-607727	175'-536'	3130	2128	AG	AG	AG/MUNI	3130
8E-6.5N	51 ST AVE / ENCANTO	55-607736	185'-600'	3061	1303	AG	AG	AG/MUNI	3061

Notes:

AG - agriculture

AG / MUNI - agriculture and municipal

TERRANEXT



LEGEND	
	- ESTIMATED WEST VAN BUREN BOUNDARY
	- ROADS

NOTE
 SOURCE DATA FOR BASEMAP FROM
 THE ARIZONA DEPARTMENT OF
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	10/26/05
DRAWN BY:	JTA	SCALE:	1" = 3600'
DESIGNED BY:	NCL		
APPROVED BY:	NCL		



FIGURE 1-1
SITE BOUNDARY
 WEST VAN BUREN WQRF SITE
 PHOENIX, ARIZONA

APPENDIX A

LAND AND WATER USE STUDY QUESTIONNAIRES

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR MUNICIPALITIES/UTILITIES WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Water user municipality/utility name: *Salt River Valley Water User's Association*

Date Questionnaire was completed: *September 21, 2007*

Name of person completing Questionnaire: *Dan Casiraro*

Contact Name: *Dan Casiraro*

Title: *Manager*

Division: *Environmental Compliance*

Address: *P.O. Box 52025, Phoenix, Arizona 85072*

Phone Number: *602-236-2811*

1. What is the current use of your municipality's/utility's property within the limits of the West Van Buren (WVB) WQARF site (Boundaries are 7th Ave to the east, 75th Ave to the west, I-10 to the north, and Buckeye Rd. to the South)?

A. Irrigation Water Delivery and Well Site

B. Substation Site

2. Please list the municipality's/utility's properties of concern/boundaries (neighborhood planning committees, zoning, canals, wells) within the WVB WQARF site boundary.

A. See attached list of USA owned property. The attached Zanjero map with WQARF Site overlay gives approximate locations of irrigation facilities.

B. See attached plot of substation Site.

3. What are the foreseeable plans for the municipality/utility property within the WVB WQARF site boundary as far into the future as they are known and up to 100 years, if possible.

The foreseeable plans for the property within the WVB WQARF Site boundary are to continue use of the existing facilities.

4. Does the municipality/utility have a published general plan for the property within the WVB WQARF site boundary?

SRP has no written plan for the irrigation or substation facilities.

5. Are parcel, zoning, or land maps available through the municipality/utility? Where are they located?

Zanjero maps are available through SRP's Cartographic and GIS Services Department.

6. Please list any specific neighborhood concern the municipality/utility is aware of within the WVB WQARF site boundaries? Please list future concerns (e.g. - freeway expansion, water use, water availability, etc.)

UNK

7. Please list any future zoning plans or area plans for the municipality/utility within the WVB WQARF site boundary:

UNK

8. Please list any "special projects" projected or anticipated within the WVB WQARF site boundaries:

UNK

9. If any property is leased (the municipality/utility is the lessor), how long is the lease term?

NA

10. If the property is leased, are there plans to renew the lease and if so, for how long?

NA

11. Please list any environmental spill of material or waste products that has occurred within the municipality/utility within the WVB WQARF site boundary in the past 5 years?

SRP is not aware of any environmental spill of material or waste product that has occurred within the boundaries of its facilities within the WVB WQARF site boundary.

12. Is the municipality/utility currently sampling groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

Yes, the well is sampled annually. The data is submitted to ADEQ under AZPDES permit #0024341.

13. Does your municipality/utility have an environmental manager or do you outsource environmental management to an environmental consulting firm? If so, please provide the following information:

Name: Dan Casiraro
Title: Manager, Environmental Compliance Division
Address: P.O. Box 52025, Phoenix, Arizona 85072
Phone Number: 602-236-2811

14. Please indicate anticipated groundwater development by the municipality/utility within the WVB WQARF site boundary.

At this time, SRP has no plans for new wells within the WVB WQARF Site boundary. That could change depending on the outcome of current water supply discussions with the City of Phoenix. The existing well located within the WVB WQARF site boundaries, 7E4N, is fully operational and will be retained as a source of groundwater supply.

15. Are there any groundwater wells owned by the water provider that have been effected by the WVB WQARF site? If so, please list the well identification numbers. What is the current status of these wells (e.g. – shut down, still pumping)?

Yes, sampling of several SRP wells in close proximity to the WVB WQARF site has shown the presence of volatile organic chemicals. Following is a list of the wells and their status.

<i>SRP Coordinate</i>	<i>ADWR Reg #</i>	<i>Status</i>
<i>5E4.5N</i>	<i>55-617112</i>	<i>OPERATIONAL</i>
<i>4E5N</i>	<i>55-607728</i>	<i>OPERATIONAL</i>
<i>5E6N</i>	<i>55-608388</i>	<i>OPERATIONAL</i>
<i>3.5E6N</i>	<i>55-607735</i>	<i>OPERATIONAL</i>

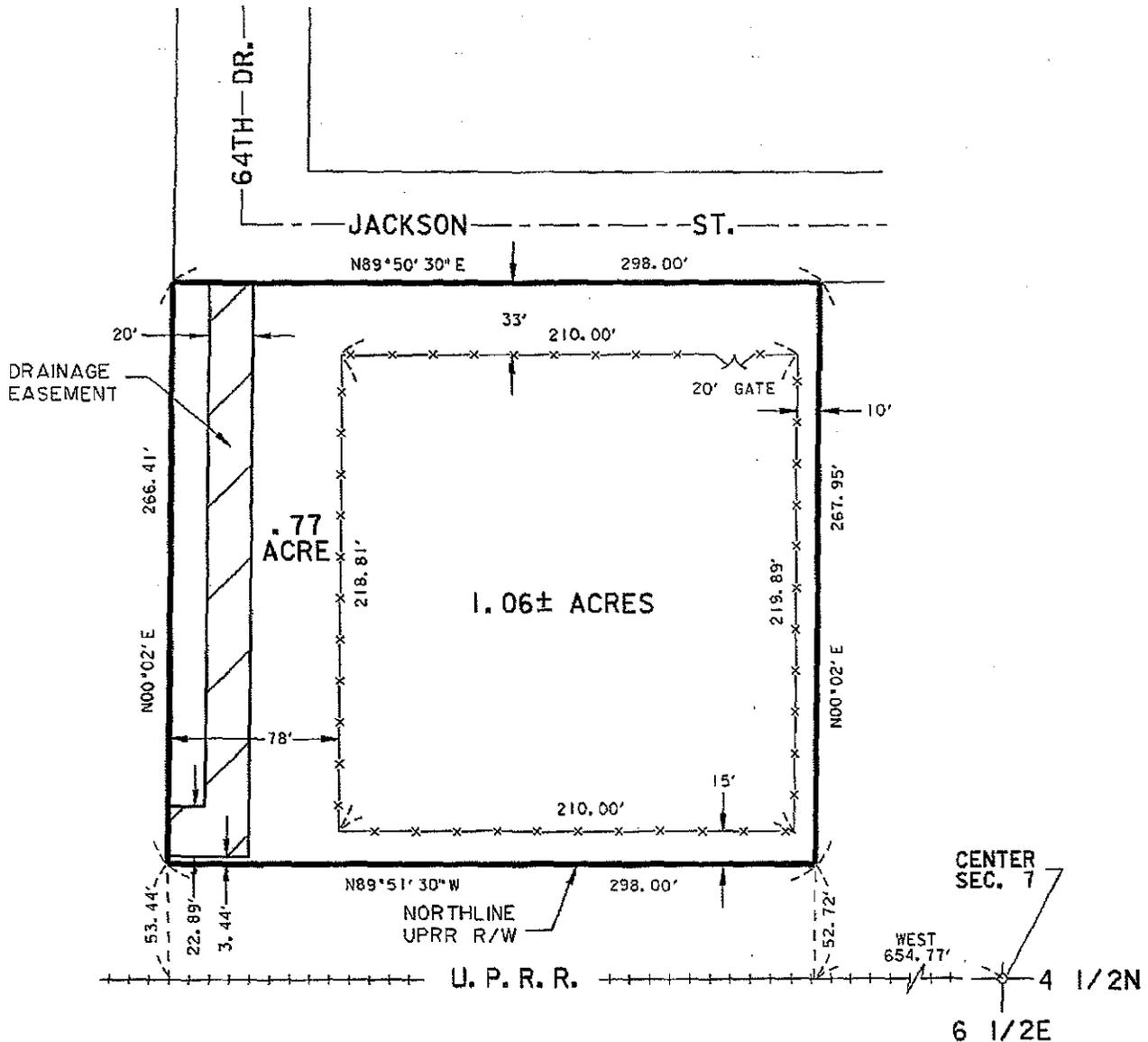
16. What is the future use (up to 100 years) for any wells that have been impacted by the WVB WQARF site?

SRP expects to retain and operate the above-listed wells to provide water supply for its shareholders. Currently, the wells provide water for irrigation but SRP anticipates that the wells will transition to drinking water supply as the area develops. SRP is in discussions with the City of Phoenix about providing additional groundwater to the City when surface water supplies are unavailable or insufficient and to give the City more operational flexibility. To achieve such a result, SRP would either direct connect wells to the City's municipal water distribution system or pipe pumped groundwater to a canal that serves a City water treatment plant.

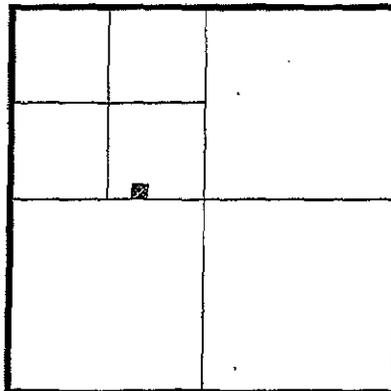
Thank you for your time. The Project Manager, Jennifer Edwards, or a representative from ADEQ's consultant, HydroGeoChem Inc., may follow-up on answers provided.

EVANS SUBSTATION

6435 W. JACKSON ST.



LOCATION: 6 5/16E - 4 9/16N
 OWNER: SRP
 R/W FILE NO.: 1379
 REF. DWG. NO.: K-756-1.1
 ACQUISITION DATE:
 RECORDER NO.:
 PARCEL NO.: 104-6-438



SECTION 7

SCALE: 1" = 80'
 SEC. 7 TIN R2E

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
1	1N	1E	McDowell	Van Buren	67 th Ave.	75 th Ave.	USA fee – Quit Claim Deed recorded in Book 117 of Deeds, Page 48	Roughly E $\frac{1}{4}$ COR to 16/13 COR. (Roosevelt Street)
							USA fee – Quit Claim Deed recorded in Book 172, Page 541	S $\frac{1}{2}$ (71 st Ave.)
6	1N	2E	McDowell	Van Buren	59 th Ave.	67 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 434	SE $\frac{1}{4}$ (Fillmore)
							USA fee – Quit Claim Deed recorded in Doc. 96-0238572	SE $\frac{1}{4}$ Van Buren at 59 th Ave.
5	1N	2E	McDowell	Van Buren	51 st Ave.	59 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 407	E $\frac{1}{2}$ (55 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 132, Page 117	S $\frac{1}{2}$ SE $\frac{1}{4}$ (51 st Ave.)
							USA fee – Quit Claim Deed recorded in Book 325, Page 148	NW $\frac{1}{4}$ (55 th Ave.)
4	1N	2E	McDowell	Van Buren	43 rd Ave.	51 st Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 591	S $\frac{1}{2}$ SW $\frac{1}{4}$ (51 st Ave.)
							USA fee – Quit Claim Deed recorded in Book 132, Page 117	N $\frac{3}{4}$ W $\frac{1}{2}$ (51 st Ave.)
							USA fee – Quit Claim Deed recorded in Book 132, Page 221	Van Buren east of 51 st Ave.
							USA fee – Quit Claim Deed recorded in Book 202, Page 477	N $\frac{1}{2}$ (47 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 167, Page 538	S $\frac{1}{2}$ SE $\frac{1}{4}$ (47 th Ave.)
							USA fee – Quit Claim Deed recorded in Doc. No. 2005-0042942	(Westside of 47 th Ave.)

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
3	1N	2E	McDowell	Van Buren	35 th Ave.	43 rd Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 433 + 436	NE ¼ (Eastside of 39 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 122, Page 391	NE ½ (Westside of 35 th Ave.)
2	1N	2E	McDowell	Van Buren	27 th Ave.	35 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 156	NW ¼ (31 st Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 257	SE ¼ (27 th Ave. & 29 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 122, Page 471	East ½ (27 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 132, Page 230	SW ¼ (31 st Ave.)
1	1N	2E	McDowell	Van Buren	19 th Ave.	27 th Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 352	NW ¼ (Bellview east of 27 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 125	NW ¼ (29 th Ave. south of Bellview)
							USA fee – Quit Claim Deed recorded in Book 115, Page 255	NE ¼ (19 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 257	W ½ (23 rd Ave. & 25 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 259	NW ¼ (25 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 128, Page 566	S ½
SRP fee – Quit Claim Deed recorded in Book 167, Page 451	SE ¼ (23 rd Ave.)							

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
Section 6 Township 1N Range 3E (boundaries are McDowell to the North, Van Buren to the South, 7 th Avenue to the East, and 19 th Avenue to the West) is "Off Project"								
12	1N	1E	Van Buren	Buckeye	67 th Ave.	75 th Ave.	USA fee – Quit Claim Deed recorded in Book 113 , Page 356	NE ½
							USA fee – General Warranty Deed recorded in Doc. 2004-1259487	NW ¼
							USA fee – General Warranty Deed recorded in Doc. 2005-1561874	NE ¼
7	1N	2E	Van Buren	Buckeye	59 th Ave.	67 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 132	N-S midsection line (roughly 63 rd Ave.)
							USA fee – Quit Claim Deed (1915) recorded in Doc. 2000-0855418	N-S midsection line (roughly 63 rd Ave.)
							USA fee - Quit Claim Deed recorded in Book 198, Page 157	South line of West ½ Southwest ¼
							USA fee – Quit Claim Deed recorded in Book 115, Page 126	S½
							USA fee – Quit Claim Deed recorded in Book 105, Page 243	N½
							USA fee – Quit Claim Deed recorded in Book 321, Page 323	NE ¼ NW ¼ (wellsite)
8	1N	2E	Van Buren	Buckeye	59 th Ave.	51 st Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 401	East section line (51 st Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 402	Mid-section line (55 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 403	Mid-section line (55 th Ave.)

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
							USA fee – Quit Claim Deed recorded in Book 115, Page 404	Mid-section line (55 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 497	East section line (51 st Ave.)
							USA fee – 1940 Quit Claim Deed recorded in Doc. No. 2006-0313634	NE ¼ SE ¼
9	1N	2E	Van Buren	Buckeye	43 rd Ave.	51 st Ave.	USA fee – General Warranty Deed recorded in Doc. No. 2002-1034649	SEC to 16/7 COR (roughly) (43 rd Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 268	(43 rd Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 271	(43 rd Ave.)
							USA fee – Quit Claim Deed recorded in Book 115, Page 276	(47 th Ave.)
10	1N	2E	Van Buren	Buckeye	35 th Ave.	43 rd Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 376	Just north of SPRR North boundary of SE ¼
							USA fee – Quit Claim Deed recorded in Book 289, Page 121	SW ¼ SE ¼
							USA fee – Quit Claim Deed recorded in Book 289, Page 508	S ½ SE ¼
11	1N	2E	Van Buren	Buckeye	27 th Ave.	35 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 181	SE ¼
							USA fee – Quit Claim Deed recorded in Book 115, Page 185	Mid-section line (31 st Ave.) & SW ¼
12	1N	2E	Van Buren	Buckeye	19 th Ave.	27 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 181	Mid-section Line (23 rd Ave.)

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
							USA fee – Quit Claim Deed recorded in Book 183, Page 343	East ½ NE 1/ 4 (19 th Ave.)
Section 7 Township 1N Range 3E (boundaries are Van Buren to the North, Buckeye to the South, 7 th Avenue to the East and 19 th Avenue to the West) is “Off Project”; however, there is USA fee property within this section								
7	1N	3E	Van Buren	Buckeye	7 th Ave.	19 th Ave.	USA fee – Quit Claim Deed recorded in Book 101, Page 646	West section line (19 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 171, Page 186	SE ¼
							Note: North ½ of West section line Quit Claimed to City of Phoenix in 1938, Quit Claim Deed recorded in Book 321, Page 486	
15	1N	2E	Buckeye	Lower Buckeye	35 th Ave.	43 rd Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 250	East section line (35 th Ave.)
							USA fee – Quit Claim Deed recorded in Book 181, Page 141	S½ SW¼ (north of Lower Buckeye)
14	1N	2E	Buckeye	Lower Buckeye	27 th Ave.	35 th Ave.	USA fee – Quit Claim Deed recorded in Book 115, Page 175	South section line (Lower Buckeye)
							USA fee – Quit Claim Deed recorded in Book 115, Page 252 Recorded in Doc. 2003-01620240	NW¼ (31 st Ave.)
13	1N	2E	Buckeye	Lower Buckeye	19 th Ave.	27 th Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 352	NW¼ SE ¼
							USA fee – Quit Claim Deed recorded in Book 113, Page 400	NE ¼ & SE ¼
							USA fee – Quit Claim Deed recorded in Book 115, Page 174	NE ¼

Fee Properties within West Van Buren WQARF

Section	Township	Range	North	South	East	West	Land Right	Description
							USA fee – Quit Claim Deed recorded in Book 115, Page 175	S½
							USA fee – unrecorded Quit Claim Deed	N½
18	1N	3E	Buckeye	Lower Buckeye	7 th Ave.	19 th Ave.	USA fee – Quit Claim Deed recorded in Book 113, Page 400	NW¼
							USA fee – unrecorded Quit Claim Deed	NE ¼

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**LAND AND WATER USE STUDY QUESTIONNAIRE
FOR MUNICIPALITIES/UTILITIES WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE**

City of Phoenix

Questionnaire completed September 21, 2007

Completed by Donn M. Stoltzfus with information from several Phoenix staff

Contact: Donn M. Stoltzfus
 Environmental Programs Specialist
 Office of Environmental Programs
 200 W. Washington Street, 14th Floor
 Phoenix AZ 85003
 602-256-5681
 donn.stoltzfus@phoenix.gov

- 1. What is the current use of your municipality's/utility's property within the limits of the West Van Buren (WVB) WQARF site (Boundaries are 7th Avenue to the East, 75th Avenue to the west, I-10 to the north, and Buckeye Road to the south?**

This area encompasses the full range of urban uses, including residential, commercial, industrial, open space, undeveloped acreage, and street and highway right-of-way.

- 2. Please list the municipality's/utility's properties of concern/boundaries (neighborhood planning committees, zoning, canals, wells) within the WVB WQARF site boundary.**

According to the map provided by ADEQ, the study area is within the boundaries of three villages in the City of Phoenix. The majority of the site is within the Estrella Village. An eastern portion is located in the Central City Village. The small portion of the study area located north of the I-10 (Papago Freeway) is located in Maryvale Village. The comments about Estrella Village land uses will generally apply to Maryvale Village. The points of contact for the villages are as follows: Rachael Pitts, Estrella Village; Craig Mavis, Central City Village; and Susan Sargent, Maryvale Village. They can be reached at 602-262-6882.

Each Village is represented by a Village Planning Committee which reports to the Mayor and Planning Commission. This committee provides recommendations on zoning, special permit, General Plan Amendment, and Planning Hearing Officer cases. They also participate in the process to produce a village plan, or smaller area plan(s) in the village. Committee Chairpersons may also meet with members of the development community

at the time developments are proposed in the village. Some of the development impacts usually discussed in those meetings involve traffic, compatibility with adjacent land uses, pedestrian amenities, and landscaping.

The City of Phoenix Zoning Ordinance identifies prohibited uses within corporate limits (Section 648). This list covers uses such as coking ovens, explosives, manufacture of harmful chemicals, incineration of waste, oil refineries, hazardous waste processing facilities, etc. Because such uses are prohibited in city limits, the village planning committee is unlikely to participate in the discussion of such uses, unless a business owner requests a waiver to Section 648, which is uncommon.

Estrella Village has a significant amount of Industrial zoning. There are two intensities: A-1 Light Industrial District (Section 627), and A-2 Industrial District (Section 628). Land uses in A-2 zoning must meet standards for air emissions, disposal of waste materials, noise levels, explosive or hazardous processes, and lighting. If there is some question as to the appropriateness of a particular land use, the Planning Department provides zoning interpretation letters to clarify. The city has become reluctant to designate any more land in the city to the A-2 designation. However this designation still exists in the Estrella Village and other parts of the city.

The Estrella Village still has private wells in use, and an extensive network of irrigation canals remains in place. The Durango Area Drainage Channel that was planned and discussed for several years will likely not be built, mainly because of failure to identify funding sources. The area wide drainage issues that the Durango Drain would have addressed are still being studied in Phoenix and Avondale.

- 3. What are the foreseeable plans for the municipality/utility property within the WVB WQARF site boundary as far into the future as they are known and up to 100 years, if possible?**

See responses to questions 4 and 6 below. Undoubtedly there will be significant changes in land use in the next 100 years, but presumably the site will still contain a range of urban uses. An increase in residential and commercial development density is likely as additional transportation corridors are constructed.

- 4. Does the municipality/utility have a published general plan for the property within the WVB WQARF site boundary?**

Two plans have been published. First, the City of Phoenix General Plan adopted by City Council in December 2001. This plan addresses land uses throughout the city. According to the General Plan, much of the study area

is located within the Enterprise Zone. Businesses located within the Enterprise Zone may qualify for income tax and property tax benefits if they create new quality jobs, a percentage of which are filled by residents of an enterprise zone or are engaged in manufacturing that meets certain criteria and invests in new capital assets. The area of study also coincides with the Southwest Phoenix Employment Center (west of I-17). The purpose of these centers is to provide a focus for job growth. The jobs are not intended to replace residential neighborhoods.

The central portion of Estrella Village is noted in the General Plan as a Phoenix Targeted Growth Area. In this area the city is willing to commit resources to growth. The study area east of the 39th Avenue alignment is part of a Proposed Infill Development District. The purpose is to identify vacant or underutilized land that could develop and redevelop within the central villages. There has been an ever increasing interest to develop infill projects within the boundaries that mainly encompass central Phoenix.

The second important plan is the Estrella Village Plan published in 1999. This plan predicted that the number of residential households would increase greatly by 2010. In fact, the Estrella Village has experienced the greatest population growth of all the villages since the 2000 Census. At the time the plan was published there was a focus on the anticipated residential development of the village. Within the last three years or so there has also been a significant increase in industrial / warehouse projects. The plan vision stressed orderly growth, an identifiable village core, strong residential neighborhoods, a variety of homes and jobs, and consistent streetscapes and trail linkages.

5. **Are parcel, zoning, or land maps available through the municipality/utility? Where are they located?**

Yes, various maps are available online through the City of Phoenix website www.phoenix.gov.

6. **Please list any specific neighborhood concern the municipality/utility is aware of within the WVB WQARF site boundaries? Please list future concerns (e.g. freeway expansion, water use, water availability, etc.**

Both Maryvale and Estrella Villages will experience impacts from the expansion of the I-10 freeway. This freeway will be widened to handle more east-west traffic, and to accommodate the connection with the SR 202 that will likely be built near the 59th Avenue alignment (north-south). Eventually the I-10 freeway corridor will also have a Light Rail extension in the middle. Increase in development is anticipated with this expansion of circulation opportunities.

7. **Please list any future zoning plans or area plans for the municipality/utility within the WVB WQARF site boundary?**

There are no specific plans identified at this time.

8. **Please list any "special projects" projected or anticipated within the WVB WQARF site boundaries?**

None at this time.

9. **If any property is leased (the municipality/utility is the leaser) how long is the lease term?**

Two City of Phoenix leases were found. One lease is to CalJet for a vacant lot near 51st Avenue and Van Buren, with an expiration date of January 2009 and two six month options. The other lease is to Union Oil for a petroleum pipeline; that lease has no expiration date.

10. **If the property is leased, are there plans to renew the lease and if so, for how long?**

No decision has been made about the future of the CalJet lease.

11. **Please list any environmental spill of material or waste products that has occurred within the municipality/utility within the WVB WQARF site boundary in the past 5 years?**

This information could be assessed by reviewing ADEQ records. City of Phoenix Fire Department may have some records of hazardous materials responses, but due to the size of the WQARF area, Phoenix is unable to provide the information at this time. ADEQ may submit a request to review Fire Department records for any specific property within the WVB WQARF area.

12. **Is the municipality/utility currently sampling groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?**

To the best of our knowledge, Phoenix is not sampling groundwater within the WVB WQARF site.

13. **Does your municipality/utility have an environmental manager?**

Karen O'Regan
Environmental Programs Manager
Office of Environmental Programs
200 West Washington Street, 14th Floor
Phoenix, Arizona 85003

The City of Phoenix 2005 Water Resources Plan identifies groundwater in the Salt River Project member lands located in central Phoenix as an increasingly necessary addition to the City's available water resources in order to meet potable water system demand due to population growth. Groundwater will also become of greater importance in times of drought-related water shortages, higher demand during peak use periods and water emergencies, and for certain specific operational needs. Groundwater, particularly in areas of relatively high water tables, can be a cost-effective alternative to importing increasingly limited surface water supplies. Wells in the central Phoenix area are desirable in part because of the existing water delivery infrastructure in this area. Phoenix is currently planning a significant expansion of its network of water supply wells that could include well construction within or adjacent to the WVB WQARF area.

15. **Are there any groundwater wells owned by the water provider that have been affected by the WVB WQARF site? If so, please list the well identification numbers. What is the current status of these wells (e.g. – shut down, still pumping)?**

To the best of our knowledge, the City of Phoenix has identified 5 wells proximal and down-gradient to the WVB WQARF site boundary. The impacts of the WQARF site contamination on these wells, if any, is undetermined. See table below.

Well #	Location	ADWR #	Point Of Entry Status
68	3646 W. Encanto	55-626550	Disconnected- Elevated TDS
154	3836 N. 63 rd Avenue	55-626577	Disconnected- Elevated nitrates
155	3836 N. 63 rd Avenue	55-626578	Disconnected- Elevated nitrates
156	6227 W. Osborne	55-626579	Disconnected- Elevated nitrates
179	402 S. 59 th Avenue	55-626588	Abandoned

16. **What is the future use (up to 100 years) for any wells that have been impacted by the WVB WQARF site?**

We intend to not utilize wells that have been impacted by the WVB WQARF site at this current time. However, as noted above there is the possibility that we may need to install new wells to service future water demand. A significant expansion of the water supply network is planned by 2020.

SRP- Phoenix Terminal

LAND AND WATER USE STUDY QUESTIONNAIRE FOR PROPERTIES OWNERS WITHIN THE WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Tank Farm Substation

Date Questionnaire was completed: September 21, 2007

Name of person completing Questionnaire: Dan Casiraro

Address: PO BOX 52025
Phoenix, AZ 85072

Contact Name: Dan Casiraro

Address: PO BOX 52025
Phoenix, AZ 85072

Phone Number: 602.236.2811

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Substation Site. See attached plat.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

Substation Site

3. Is the property owned or leased?

Neither - It is being used by Contract with Southern Pacific Transportation Co.

4. Who is the owner of the property?

Name: Southern Pacific Pipelines
Address: 1100 Town & Country Road
Orange, CA 92868

Phone Number: _____

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

As long as contract is in place, substation will remain.

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

SRP does not have any groundwater wells on the property.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NA

3. Please list the company's waste streams?

Periodic quantities of mineral oil

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NA

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

SRP is not sampling any groundwater wells on the property.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

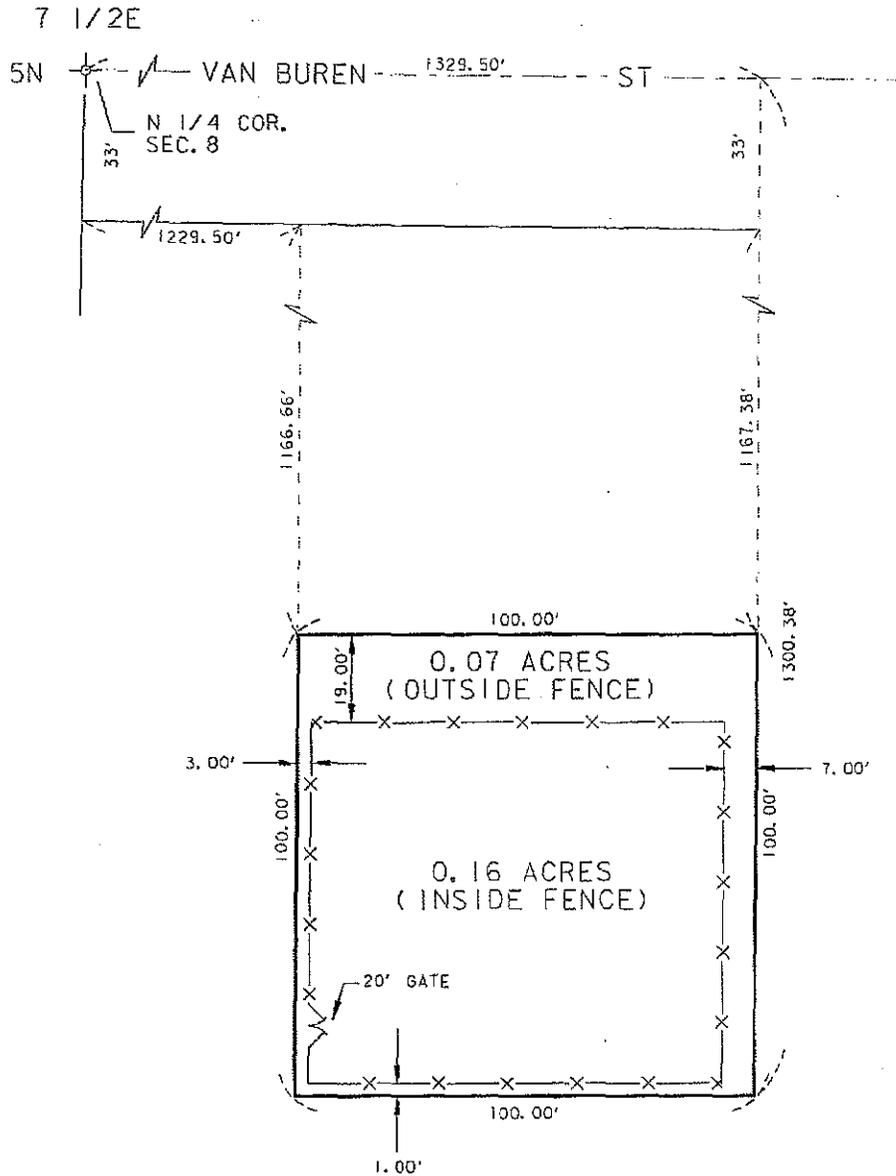
7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

At this time, SRP has no plans for new wells at this property.

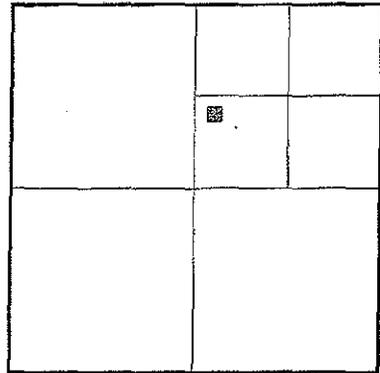
8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Dan Casiraro
Title: Manager, Environmental Compliance
Address: PO Box 52025, Phoenix, AZ 85072
Phone Number: 602.236.2811

TANK FARM SUBSTATION



LOCATION: 7 1/2 E - 4 13/16 N
 OWNER: CONTRACT - SOUTHERN
 PACIFIC TRANSPORT. CO.
 R/W FILE NO. : 1977
 ACQUISITION DATE:
 RECORDER NO. :
 REF. DWG. NO. : B-103-1, C-59-1
 PARCEL NO. :



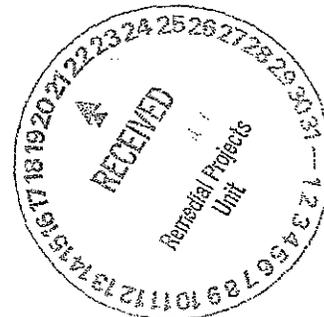
SECTION 8



SCALE: 1" = 40'
SEC. 8 TIN R2E



4606 W. Hadley
Phoenix, AZ 85043



**Certified Mail
Return Receipt**

September 20, 2007

**Ms. Jennifer Edwards Thies
Project Manager
ADEQ/Waste Programs Division
Remedial Projects Unit-4415B-1
1110 W. Washington Street
Phoenix, AZ 85007**

Subject: Land and Water Use Study Questionnaire
West Van Buren (WVB) Water Quality Assurance Revolving Fund (WQARF)
Registry Site, Phoenix, Arizona

Dear Ms. Edwards Thies:

Enclosed, please find the APS West Phoenix Power Plant's completed response to the WVB WQARF Land and Water Use Study Questionnaire. Should you have any questions regarding the submittal of the questionnaire, please contact Craig Chavet at (602) 250-1377 or email cchavet@apsc.com

Regards,

Scott Takinen FOR SCOTT TAKINEN
**Scott Takinen
Plant Manager
West Phoenix Power Plant**

Attachments: Land and Water Use Study Questionnaire

cc: John Boyer Mail Station 8376

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: West Phoenix Power Plant

Date Questionnaire was completed: September 14, 2007

Name of person completing Questionnaire: Craig Chavet

Address: 4606 W. Hadley Street
Phoenix, Arizona 85043
602-250-1377

Contact Name: Craig Chavet
Address: 4606 W. Hadley Street
Phoenix, Arizona 85043
Phone Number: 602-250-1377

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

The West Phoenix Power Plant is a multi-unit electric generating plant that has been in operation since 1930. The Plant consists of the following major features (see attached plot map for component locations):

- Administration Building
- Administration Annex Building
- Warehouse
- Maintenance Shop
- Control Building
- Combined Cycle Power Plants (Units 1, 2, 3, 4 and 5) - operated daily
- Combustion Turbine Power Plants (Units 1 and 2) - operated during summer peak demand
- Steam Power Plants (Units 4, 5, and 6) - in "mothball" condition for emergency backup power generation

- 12.5/69 KV Yard
- USBR Switchyard
- Six Cooling Towers
- Combined-Cycle Unit 4 Brine Concentrator
- Combined-Cycle Unit 4 Brine Evaporation Pond
- Combined-Cycle Unit 4 Surge Pond
- Combined-Cycle Unit 5 Brine Concentrator Surge Pond
- Seven Retention Basins
- Six Sumps
- Six Above Ground Storage Tanks for Petroleum

All power generating units at the Facility use natural gas as the primary fuel. No.2 diesel fuel is stored on site as a secondary fuel. Residual oil (No. 4, 5, or 6 fuel oils) can also be stored on site as a backup fuel but is not currently used.

Combined-Cycle Units

Natural gas is used to fire a combustion turbine in the combined-cycle units that produces electricity through a directly connected electric generator. Exhaust gases (waste heat) from the turbine are captured and utilized to produce steam in a boiler. This steam is used to generate further electricity in a steam turbine. Since these units also use a steam turbine to produce a portion of the power, a cooling tower is used to condense the steam back to liquid.

Combustion Turbines

Two gas turbines directly convert the heat from burning fuel into mechanical energy. This energy is then converted to electrical energy through a directly connected electric generator. A portion of the power developed by the turbine is used to drive the compressor and the balance of the power is used to drive a generator.

Steam Units

Steam Units 1, 2, and 3 were dismantled in the 1960s. Steam Units 4, 5, and 6 were constructed and became operational in 1948, 1949, and 1950, respectively. These units were taken out of commission in 1989 but brought back into operation for several months in 2001 and 2002.

Two cooling towers are used to supply circulating water to the condensers for condensing steam from the turbines which is reused in a closed loop system. Steam Unit 4 Cooling Tower supplies circulating water only to Steam Unit 4 and Steam Unit 6 Cooling Tower supplies circulating water to both Steam Units 5 and 6. Steam Unit 5 Cooling Tower has been decommissioned.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

APS will continue to use the property for electric power generation.

3. Is the property owned or leased?

Owned

4. Who is the owner of the property?

Name: Arizona Public Service
Address: 400 N. 5th Street
Phoenix, Arizona 85004
Phone Number: 602-250-1377

5. If the property is leased, how long is the lease term?

APS owns the property; however, a parcel of land is leased to Pro Petroleum (Figure 1).

Pro Petroleum, Inc., located at 408 S. 43rd Ave, Phoenix, AZ 85009, entered into a bailment agreement with APS approximately 15 years ago to occupy a small parcel (approximately 2 acre plot) of property on the APS West Phoenix Power Plant site. Within the agreement, they are entitled to the storage of their petroleum product within all but one of the bulk petroleum storage tanks located on the APS side of the property line from APS (4R excluded). Pro Petroleum has also implemented their own SPCC plan for activities on their property.

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

No

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

Yes, groundwater monitoring wells and water supply wells (see attached well and borehole identification table).

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

No

3. Please list the company's waste streams?

(See attached spreadsheet for a list of the waste streams).

APS currently has two Aquifer Protection Permits at the facility:

APP No. 501828 issued by ADEQ on December 2, 2004
Operation of five double-lined surface impoundments associated with the
Combined-Cycle Units 4 and 5

The discharges from the facilities existing on site prior to 2001 are addressed under an individual closure APP No. 100585.

APS submitted an AZPDES permit application dated July 21, 2003 to allow for the discharge of cooling tower blowdown, sanding water, and low-volume wastes from various sources within the Plant to a SRP Lateral Canal.

Combined-Cycle Units

The Combined-Cycle Units 1, 2, and 3 Cooling Tower discharges approximately 217,000 gallons per day (gpd) of cooling tower blowdown to an APS Lateral Canal which discharges to the SRP Irrigation Lateral Canal 16.4 at Outfall 005.

Combustion Turbines

Approximately 2,000 gpd of the inlet air evaporative cooler blowdown from the gas turbines are collected in a pipeline and routed to a sump located just east of the Combined Cycle Cooling Tower. From there it is routed via a pipeline to the Combined Cycle Cooling Tower.

Steam Units

During steam plant operation, approximately 6,000 gpd of Steam Unit 6 Cooling Tower blowdown and 4,000 gpd of Steam Unit 4 Cooling Tower blowdown are

discharged to the APS Lateral Canal which discharges to the SRP Irrigation Lateral Canal 16.4 at Outfall 005. Approximately 100 gpd of steam plant boiler blowdown, steam plant drainage and groundwater from the fire protection system are discharged to the APS Lateral Canal which discharges to the SRP Irrigation Lateral Canal 16.4 at Outfall 005.

Onsite Production (Sanding Water) Wells

Source (makeup) water for cooling water in the Facility is supplied by groundwater from five on-site wells. Approximately 62,000 gpd of sanding water from Deepwells 7, 8, and 9 are discharged to the APS Lateral Canal which discharges to the SRP Irrigation Lateral Canal 16.4 at Outfall 005.

Low Volume Wastes

Each combined cycle unit has a low volume waste (LVW) collection sump which collects boiler blowdown, evaporative cooler blowdown, and drainage from boiler sampling lines. Additionally, each combined cycle unit has a leakage condensate sump which collects leakage from the condensate and circulating pumps. The leakage collected in these sumps is pumped to the LVW collection sump in the Combined-Cycle Unit 3. The low volume wastes collected at the LVW collection sumps are then routed to the Combined Cycle Cooling Tower.

The evaporative cooler blowdown from the two gas turbines is collected in a pipeline and routed to a single LVW collection sump located just east of the Combined Cycle Cooling Tower. From there it is routed via a pipeline to the cooling tower.

Reject and membrane backwash from the Reverse Osmosis units is routed to the Combined-Cycle Unit 5 Cooling Tower or to the Combined Cycle Cooling Tower depending on facility water demands.

The low volume waste from the steam plant is routed to a single steam plant sump which is located just south of the steam plant. The LVW in the sump is then discharged to the APS Lateral Canal which discharges to the SRP Irrigation Lateral Canal 16.4 at Outfall 005.

Cleaning Waste

The Facility generates a small amount of metal cleaning waste that is collected and shipped off site.

Transformers

The Facility has been certified as not having any transformers containing PCBs.

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

The APS West Phoenix Power Plant has not had any reportable quantity hazardous material spills in the last five years. The facility has implemented an SPCC plan for the handling and storage of oil products on site. The facility also maintains a RCRA Emergency Preparedness and Contingency Plan and EPCRA Emergency Response Plan to address spills of hazardous wastes or extremely hazardous substances.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

Monitoring wells

The West Phoenix Power Plant site has four existing UAU monitoring wells that have been routinely sampled for petroleum related compounds in water. The wells are part of the VRP Site 070932-00. The four existing monitoring wells are MW-12, GT-5a, RB-1, and J-2.

Other UAU monitoring wells were drilled on site during the 1980s and 1990s, but are inactive due to several reasons, including: wells dry due to water level declines in the UAU; wells abandoned due to construction; or, wells connected to the bioventing system. These inactive wells are not addressed in this section, but details have been included in reports submitted to the VRP program.

Past sample results from the four existing monitoring wells have been submitted to the VRP program under Site Id 070932-00. Past sample results include inorganic constituents as well as BTEX.

The ADEQ Remedial Projects Unit samples well RB-1 on an annual basis for VOC's and BTEX as part of the West Van Buren WQARF program.

Production wells

The West Phoenix Power Plant production wells are 1,800 to 1,900 feet deep and are perforated from 1,100 feet to the bottom of the well. These wells pump from the Lower Alluvial Unit (LAU).

The production wells are typically sampled for AZPDES permit renewal purposes and the data included as part of the ADEQ permit renewal application.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

Two additional, deeper UAU monitoring wells are scheduled for drilling in October 2007. The new wells will be designated MW-13 and MW-14. Upon completion of the new well installations, all six wells will undergo four quarters of groundwater sampling. Groundwater samples will be analyzed using EPA Test Methods 8260, 8310, and 8015AZ. Thereafter, the wells will be sampled semi-annually in March and September, with groundwater samples analyzed using EPA Test Methods 8260, 8310, and 8015AZ until site closure.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Craig Chavet
Title: Sr. Environmental Scientist
Address: 4606 W. Hadley Street
Phoenix, Arizona 85043
Phone Number: 602-250-1377

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.



CC Unit 5
Brine Concentrator
Surge Pond

CC Unit
Surge
Pond

CC Unit 4
Brine Evaporation
Pond

CC Unit 4
Brine Evaporation
Pond

PRISON BEAM

S.R.P. IRRIGATION CANAL (Lateral 15.4)

Production Well #7b

Abandoned Well #7a

Alliant Food Service Warehouse

Combined Cycle Unit 6
Combined Cycle Unit 5
Combined Cycle Unit 4
Combined Cycle Unit 3
Combined Cycle Unit 2
Combined Cycle Unit 1

CC Unit 3 Cooling Tower

Retention Basin

CC Unit 3 Cooling Tower

Production Well #5

Riverside Distribution Center LLC

Production Well #8

USER SWITCHYARD

Petroleum Fuel Loading

No. 2 Cooling Tower

Brine Concentrator Above Ground Tank

MW-2

MW-1000

MW-1001

MW-1002

MW-1003

MW-1004

MW-1005

MW-1006

MW-1007

MW-1008

MW-1009

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Arizona Public Service Company
 West Phoenix Power Plant
 List of wells and geotechnical boreholes (source ADWR 55 database)

PROGRAM	REGISTERED	Location	Well Name	WELLTYPE	WELLUSE1	WELLUSE2	WATERUSE1	Comments
55	516264	(A-1-2)9cab	MW-1	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	520380	(A-1-2)9dcb	Abandoned borehole	MONITOR OR PIEZOMETER	OBSERVATION	ABANDONED	MONITORING	First Attempt for MW-7 using rotary rig. Failed and hole abandoned.
55	520381	(A-1-2)9dac	MW-2	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	520382	(A-1-2)9dba	MW-5	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	620383	(A-1-2)9dbd	MW-4	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	520384	(A-1-2)9dbd	Abandoned borehole	MONITOR OR PIEZOMETER	OBSERVATION	ABANDONED	MONITORING	Bit Failure req abandonment of original MW-3 hole.
55	520385	(A-1-2)9dac	MW-6	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	521003	(A-1-2)9dcb	MW-7	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	521386	(A-1-2)9dac	MW-3	MONITOR OR PIEZOMETER	OBSERVATION		MONITORING	
55	524157	(A-1-2)9dbd	MW-8	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	524158	(A-1-2)9dbd	MW-9	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	524159	(A-1-2)9dbd	MW-10	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	524160	(A-1-2)9dbd	MW-11	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	526768	(A-1-2)9dbd	GT-1	MONITOR	ABANDONED		MONITORING	
55	527230	(A-1-2)9dbd	GT-2	MONITOR	ABANDONED		MONITORING	
55	527231	(A-1-2)9dbd	GT-3	MONITOR	ABANDONED		MONITORING	
55	527232	(A-1-2)9dbd	GT-4	MONITOR	ABANDONED		MONITORING	
55	538272	(A-1-2)9dbb	GT-5	MONITOR	ABANDONED		MONITORING	
55	538273	(A-1-2)9dbc	MW-12	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	542710	(A-1-2)9dba	Geotechnical Boring	MONITOR OR PIEZOMETER	MONITOR	ABANDONED	MONITORING	A tank. Abandoned
55	542711	(A-1-2)9dba	J-2	MONITOR OR PIEZOMETER	MONITOR		MONITORING	
55	542712	(A-1-2)9dba	Geotechnical Boring	EXPLORATION	GEOTECHNICAL		NONE	- part of Jet-A release investigation
55	578085	(A-1-2)9dab	WR-F1	MONITOR	MONITOR		TEST	
55	578086	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578087	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578088	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578089	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578090	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578091	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578092	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578093	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	578094	(A-1-2)9dab	Geotechnical Boring	MONITOR	MONITOR		TEST	
55	587424	(A-1-2)9dbb	Geotechnical Borings	GEOTECHNICAL	GEOTECHNICAL		NONE	Geotech boreholes associated with closure of "GT" Fuel Release Site.
55	587425	(A-1-2)9dbb	Potential Monitor Well not Drilled	MONITOR	MONITOR		TEST	Potential monitor well never drilled. Related to "GT" Fuel Release Site.

Arizona Public Service Company
 West Phoenix Power Plant
 List of wells and geotechnical boreholes (source ADWR 55 database)

PROGRAM	REGISTRAR	Location	Well Name	WELLTYPE	WELLUSE1	WELLUSE2	WATERUSE1	Comments
55	587426	(A-1-2)9dbb	Potential Monitor Well not Drilled	MONITOR	MONITOR		TEST	Potential monitor well never drilled. Related to "GT" Fuel Release Site.
55	590921	(A-1-2)9dbc	Geotechnical Boring	GEOTECHNICAL	GEOTECHNICAL		TEST	Boring at SW Drainage Pond
55	590922	(A-1-2)9dbc	RB-1	MONITOR	MONITOR		MONITORING	
55	594063	(A-1-2)9dcc	Original filing for well 7a, denied	NON-EXEMPT	WATER PRODUCTION		UTILITY (WATER CO)	Original filing for Well No. 7 Replacement well in same location. Filing denied because Well No. 7 abandoned prior to drilling replacement well 7a. Therefore did not qualify as replacement well in same location. Later refilled as new well. 55-594506
55	594506	(A-1-2)9dcc	Well No. 7a	NON-SERVICE	WATER PRODUCTION		COMMERCIAL	
55	595244	(A-1-2)9dbb	Well No. 6a	NON-EXEMPT	WATER PRODUCTION		INDUSTRIAL	
55	595245	(A-1-2)9dcc	Well No. 7b	NON-SERVICE	WATER PRODUCTION		INDUSTRIAL	
55	613079	(A-1-2)9cdb	Well No. 9	NON-EXEMPT	WATER PRODUCTION		INDUSTRIAL	
55	613080	(A-1-2)9dcb	Well No. 4?	NON-EXEMPT	ABANDONED		INDUSTRIAL	
55	613081	(A-1-2)9ddd	Well No. 8	NON-EXEMPT	WATER PRODUCTION		INDUSTRIAL	
55	613082	(A-1-2)9dcc	Well No. 7	NON-EXEMPT	ABANDONED		INDUSTRIAL	
55	613083	(A-1-2)9dbb	Well No. 6	NON-EXEMPT	ABANDONED		INDUSTRIAL	
55	613084	(A-1-2)9dac	Well No. 5	NON-EXEMPT	WATER PRODUCTION		INDUSTRIAL	
55	200475	(A-1-2)9cad	GT-5a	MONITOR	MONITOR		MONITORING	

West Phoenix Power Plant

Waste Stream Identification

Waste Stream	Profile Number	Disposal Method	Waste Vendor
"Alto" and "Ecologic" fluorescent tubes		Trash	WM
Asbestos, friable	CE6599	Landfill	WM
Asbestos, non-friable	CE6598	Landfill	WM
Boiler Cleaning Waste		Treatment	LES
Brine Conc. Liquid	P-501828	Surface Impoundments	APP
Brine Conc. Liquid	aps5765	Treatment	LES
Brine Evap Pond Sludge (CC4)	03839B	Landfill	WM
Construction debris	456631	Landfill	WM
Cooling tower blowdown (CC1-2-3)	AZ0023159	Permitted Discharge	AZPDES
Cooling tower blowdown (CC4-5)	P-501828	Surface Impoundments	APP
Cooling tower wood and debris	CF2896	Landfill	WM
Crystallizer Sludge (CC5)	02787B	Landfill	WM
Empty aerosol cans		Recycle	Deer Valley
Empty plastic drums - rinsed		Landfill	Wm
Empty steel drums		Recycle	Deer Valley
Ion exchange resin	02368B	Landfill	WM
Lead acid batteries		Recycle	Deer Valley
Mercury (liquid)		Recycle	Bethlehem App.
Mercury contaminated debris		Hazwaste	Romic
Mercury containing lamps		Recycle	Deer Valley
Non-empty aerosol cans		Hazwaste	Deer Valley
Non-regulated PCS	04729B	Landfill	WM
Oily water (CC turbine area sumps)		Treatment	LES
Oil absorbant		Landfill	WM
Paint/Thinner/Solvent		Hazwaste	Romic
Paper, cardboard and some plastic		Recycle	WM
Regulated PCS - Special Waste	CE6600	Landfill	WM
Sand blast grit		Landfill	WM
Scrap metal, filings and welding rods		Recycle	Deer Valley
Solid waste (trash)		Landfill	WM
Storm drain debris	00989B	Landfill	WM
Tonar cartridges		Recycle	Deer Valley
Used EPA 2000		Recycle	Thermo Fluids
Used oil		Recycle	Thermo Fluids
Used oil (Fyrequel)		Recycle	Thermo Fluids
Used oil filters - drained		Landfill / Recycle	WM
Wood, treated	CF2896	Landfill	WM

WAPA

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: U.S. Dept of Energy / WAPA
Date Questionnaire was completed: 9/10/07
Name of person completing Questionnaire: ENOÉ MARCUM
Address: P.O. Box 6457
PHOENIX, AZ 85005

Contact Name: John Holt
Address: P.O. Box 6457
PHOENIX, AZ 85005
Phone Number: 602-605-2592

A. Property Information

1. What is the current use of the property? Please include a detailed facility description. Office and warehouse
See attached for description.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible? **NONE**

3. Is the property owned or leased? **owned**

4. Who is the owner of the property?

Name:

Address:

Phone Number:

U.S. Dept. of Energy - WESTERN Area Power Admin. (WAPA)
615 S. 43rd Ave
Phoenix, AZ 85009
602-605-2592

5. If the property is leased, how long is the lease term? **N/A**

6. If the property is leased, are there plans to renew the lease and for how long? **N/A**

7. If the property is owned, do you plan on relocating and if so in what timeframe? **NO**

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

One groundwater on property, it is used for irrigation.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years? *N/A*

3. Please list the company's waste streams?

*NON PCB TRANSFORMER OIL Contaminated Soil, USED
NON PCB TRANSFORMER OIL, ^{used} Fluorescent Lamps, used
high density sodium bulbs, waste paint is occasionally
generated after a project is completed. WASTE is
brought to complex from other satellite areas.*

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years. *NONE*

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

ADEQ's contractor

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number? NO

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for? NO

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: John Holt
Title: Environmental Manager
Address: P.O. Box 6457, P.H., AZ 85005
Phone Number: 602-605-2592

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR MUNICIPALITIES/UTILITIES WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Water user municipality/utility name: Roosevelt Irrigation District

Date Questionnaire was completed: November 12, 2007

Name of person completing Questionnaire: Stanley H. Ashby

Contact Name: Stanley H. Ashby

Title: Superintendent

Division: N/A

Address: 103 West Baseline, Buckeye, Arizona 85326

Phone Number: (623) 386-2046

1. What is the current use of your municipality's/utility's property within the limits of the West Van Buren ("WVB") WQARF site (Boundaries are 7th Avenue to the east, 75th Avenue to the west, I-10 to the north, and Buckeye Road to the South)?

Roosevelt Irrigation District operates a well field and canal and lateral system within the area described. Water withdrawn from the area is used for nonpotable purposes within the District's boundaries.

2. Please list the municipality's/utility's properties of concern/boundaries (neighborhood planning committees, zoning, canals, wells) within the WVB WQARF site boundary.

By letter dated October 1, 2007, ADEQ provided the district with Table 1 and Figure 1 of the West Van Buren WQARF site 2001 Draft Land and Water Use Study. A copy of these documents are attached hereto as Exhibits A and B, respectively. On Figure 1, we have highlighted the wells which we believe are owned by the district. In addition, the district operates a system of canals and laterals in that area.

3. What are the foreseeable plans for the municipality/utility property within the WVB WQARF site boundary as far into the future as they are known and up to 100 years, if possible?

The wells and canal and lateral system will continue to be used much as they are today.

Please note that in the 2001 Draft Land and Water Use Study, at pages 9 and 10, the Study states as follows:

“The RID was formed in 1928, after securing an agreement with SRP to pump and deliver water in 1923. This agreement with SRP was for a term of 99 years. This agreement will expire in 2019. SRP does not appear interested in renewing this agreement. If SRP does not renew, then RID will no longer be able to pump wells east of the Agua Fria River. This will cut RID’s pumping rate by 85%.”

The above quoted language is not correct. A more accurate statement would be as follows:

“The RID was formed in 1928, after securing an agreement with SRP to pump and deliver water in 1923. SRP may take the position that this agreement will expire in 2019. RID takes the position that the agreement does not expire. If SRP prevails in its position, then RID may no longer be able to pump wells east of the Agua Fria River. This could cut RID’s pumping rate by 85%.”

4. Does the municipality/utility have a published general plan for the property within the WVB WQARF site boundary?

No.

5. Are parcel, zoning, or land maps available through the municipality/utility? *No.* Where are they located?

N/A

6. Please list any specific neighborhood concern the municipality/utility is aware of within the WVB WQARF site boundaries? *None.* Please list future concerns (e.g. – freeway expansion, water use, water availability, etc.)

- Prohibitions against pumping.*
- The imposition of water treatment requirements.*
- Limitations on the uses of the water withdrawn.*

7. Please list any future zoning plans or area plans for the municipality/utility within the WVB WQARF site boundary.

None.

8. Please list any "special projects" projected or anticipated within the WVB WQARF site boundaries:

None.

9. If any property is leased (the municipality/utility is the lessor), how long is the lease term?

N/A

10. If the property is leased, are there plans to renew the lease and if so, for how long?

N/A

11. Please list any environmental spill of material or waste products that has occurred within the municipality/utility within the WVB WQARF site boundary in the past 5 years.

The District is not aware of any such spill(s).

12. Is the municipality/utility currently sampling groundwater wells on the property? *No.* If so, how often is the sampling conducted? *N/A* Are analytical results being submitted to ADEQ of the groundwater database? *No*

13. Does your municipality/utility have an environmental manager or do you outsource environmental management to an environmental consulting firm? *No.* If so, please provide the following information: *N/A*

Name: _____

Title: _____

Address: _____

Phone Number: _____

14. Please indicate anticipated groundwater development by the municipality/utility within the WVB WQARF site boundary.

No significant changes anticipated.

15. Are there any groundwater wells owned by the water provider that have been affected by the WVB WQARF site? *Upon information and belief, yes.* If so, please list the well identification numbers. *Based upon the information provided by ADEQ and confirmed with ADWR, the well identification numbers are highlighted on Exhibits "A" and "B" attached hereto.* What is the current status of these wells (e.g. – shut down, still pumping)?

All are still pumping.

16. What is the future use (up to 100 years) for any wells that have been impacted by the WVB WQARF site?

Same as today.

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow up on answers provided.

ROOSEVELT IRRIGATION DISTRICT

CTS-229280
R-52332
V-1
STANLEY H. ASHBY
SUPERINTENDENT

DIRECTORS
W. BRUCE HEIDEN, PRESIDENT
DWIGHT B. LEISTER
CHARLES K. YOUNGKER

103 WEST BASELINE ROAD
BUCKEYE, ARIZONA 85326
TELEPHONE (623) 386-2046
FAX (623) 386-4360

January 12, 2010

Ms. Jennifer Edwards Thies, Project Manager
Remedial Projects Section, Office of Waste Programs
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
1110 West Washington Street
Phoenix, Arizona 85007



Re: **REVISED LAND AND WATER USE STUDY QUESTIONNAIRE
WEST VAN BUREN WQARF REGISTRY SITE**

Dear Ms. Thies:

On behalf of the Roosevelt Irrigation District (RID) and its Board of Directors, I am submitting the attached Land and Water Use Study Questionnaire to clarify and update information that RID was asked to provide the Arizona Department of Environmental Quality (ADEQ). We respectfully request that this information be appropriately considered in ADEQ formulation of West Van Buren WQARF Site remedial objectives and finalization of the remedial investigation report.

Very truly yours,

Stanley H. Ashby
Stanley H. Ashby

Cc: David P. Kimball III Esq., Gallagher & Kennedy, P.A.
Sheryl Sweeney, Esq., Ryley Carlock & Applewhite
Dennis H. Shirley, Montgomery & Associates

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR MUNICIPALITIES/UTILITIES WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Water user municipality name: Roosevelt Irrigation District

Date Questionnaire was completed: January 7, 2010

Name of person completing Questionnaire: Stanley H. Ashby

Contact Name: Stanley H. Ashby

Title: Superintendent

Division: N/A

Address: 103 West Baseline, Buckeye, Arizona 85326

Phone Number: (623) 386-2046

1. What is the current use of your municipality's/utility's property within the limits of the West Van Buren ("WVB") WQARF site (Boundaries are 7th Avenue to the east, 75th Avenue to the west, I-10 to the north, and Buckeye Road to the South)?

Roosevelt Irrigation District operates a well field and canal and lateral system within the area described. Groundwater withdrawn from the WVB site is currently used for nonpotable purposes within the Districts boundaries.

2. Please list the municipality's/utility's properties of concern/boundaries (neighborhood planning committees, zoning, canals, wells) within the WVB WQARF site boundary.

RID wells contaminated by the WVB groundwater plume and located within the boundaries of the WVB WQARF site (as defined above) include: RID wells number 84, 89, 92, 95, 100, 105, 106, 107, 108, 109, 110, 111, 112, 113, and 114. Additional RID wells contaminated by the WVB groundwater plume exist south of Buckeye Road including RID wells number 94, 99, 102, 103, and 104.

Additional RID wells threatened by the WVB groundwater plume include: RID wells number 83, 85, 86, 87, 88, 90, 91, 93, 96, 97, 98, and 101.

RID maintains a large distribution canal, the RID Main Canal, that transects the WVB Site from the southeast to the northwest. RID also maintains lateral pipelines/canals running north to south from RID wells number 89, 92, 95 and 100 to the Main Canal as well as from RID wells number 102, 103, and 104 to the Main Canal. A pipeline/canal also runs east from RID well number 114, along the southern margin of Van Buren Street, to the WVB Site western margin.

3. What are the foreseeable plans for the municipality/utility property within the WVB WQARF site boundary as far into the future as they are known and up to 100 years, if possible?

Currently, the wells in the WVB site provide water supply for irrigation but the wells will transition to drinking water supply as residential and commercial development continues in the District. RID is currently in discussions with west valley water providers regarding delivery of water for subsequent treatment and supply for municipal use and anticipates continuing interest in this regard in the future.

RID groundwater east of the Agua Fria River could serve as an immediate supply of source water for municipal use. This groundwater is superior in quality (total dissolved solids) to that existing in the west valley and, therefore, represents a more cost effective option for development of additional municipal water supplies to support future growth.

RID's right to pump groundwater was initiated and perfected under State law. This right is a vested, real property right. Contrary to any assertion by Salt River Project, the agreements between SRP and RID do not require such pumping to terminate in 2026 or at any other time.

4. Does the municipality/utility have a published general plan for the property within the WVB WQARF site boundary?

No.

5. Are parcel, zoning, or land maps available through the municipality/utility? *No.* Where are they located?

N/A

6. Please list any specific neighborhood concern the municipality/utility is aware of within the WVB WQARF site boundaries? Please list future concerns (e.g. - freeway expansion, water use, water availability, etc.)

- *Prohibitions against pumping.*
- *The imposition of water treatment requirements.*
- *Limitations on the uses of the water withdrawn, including use as source water for municipal drinking water supplies.*

7. Please list any future zoning plans or area plans for municipality/utility within the WVB WQARF site boundaries:

None.

8. Please list any "special projects" projected or anticipated within the WVB WQARF site boundaries:

An Early Response Action is planned to mitigate the impacts of contamination of numerous wells by hazardous materials associated with the WVB WQARF site.

9. If any property is leased (the municipality/utility is the lessor), how long is the lease term?

N/A

10. If the property is leased, are there any plans to renew the lease and if so, for how long?

N/A

11. Please list any environmental spill of material or waste products that has occurred within the municipality/utility within the WVB WQARF site boundary in the past 5 years.

The District is only aware of what is referenced in ADEQ/EPA Records.

12. Is the municipality/utility currently sampling groundwater wells on the property? *N/A*. If so, how often is the sampling conducted? *N/A* Are analytical results being submitted to ADEQ of the groundwater database? *N/A*.

13. Does your municipality/utility have an environmental manager or do you outsource environmental management to an environmental consulting firm? *No*. If so, please provide the following information: *N/A*

Name: _____

Title: _____

Address: _____

Phone Number: _____

14. Please indicate anticipated groundwater development by the municipality/utility within the WVB WQARF site boundary.

No significant changes anticipated.

15. Are there any groundwater wells owned by the water provider that have been affected by the WVB WQARF site? *Yes.* If so, please list the well identification numbers. What is the current status of these wells (e.g. - shut down, still pumping)?

Impacted RID Wells

<i>RID Well #</i>	<i>ADWR Well #</i>	<i>Status</i>
<i>RID-84</i>	<i>55-607226</i>	<i>Pumping</i>
<i>RID-89</i>	<i>55-607221</i>	<i>Pumping</i>
<i>RID-92</i>	<i>55-607218</i>	<i>Pumping</i>
<i>RID-94</i>	<i>55-607216</i>	<i>Pumping</i>
<i>RID-95</i>	<i>55-607215</i>	<i>Pumping</i>
<i>RID-99</i>	<i>55-607211</i>	<i>Pumping</i>
<i>RID-100</i>	<i>55-607210</i>	<i>Pumping</i>
<i>RID-102</i>	<i>55-607196</i>	<i>Pumping</i>
<i>RID-103</i>	<i>55-607208</i>	<i>Pumping</i>
<i>RID-104</i>	<i>55-607207</i>	<i>Pumping</i>
<i>RID-105</i>	<i>55-607206</i>	<i>Pumping</i>
<i>RID-106</i>	<i>55-607205</i>	<i>Pumping</i>
<i>RID-107</i>	<i>55-607204</i>	<i>Pumping</i>
<i>RID-108</i>	<i>55-607203</i>	<i>Pumping</i>
<i>RID-109</i>	<i>55-607202</i>	<i>Pumping</i>
<i>RID-110</i>	<i>55-607201</i>	<i>Pumping</i>
<i>RID-111</i>	<i>55-607200</i>	<i>Out of Service</i>
<i>RID-112</i>	<i>55-607199</i>	<i>Pumping</i>
<i>RID-113</i>	<i>55-607198</i>	<i>Pumping</i>
<i>RID-114</i>	<i>55-607197</i>	<i>Pumping</i>

Threatened RID Wells

<i>RID Well #</i>	<i>ADWR Well #</i>	<i>Status</i>
<i>RID-83</i>	<i>55-607227</i>	<i>Pumping</i>
<i>RID-85</i>	<i>55-607225</i>	<i>Pumping</i>
<i>RID-86</i>	<i>55-607224</i>	<i>Pumping</i>
<i>RID-87</i>	<i>55-607223</i>	<i>Pumping</i>
<i>RID-88</i>	<i>55-607222</i>	<i>Pumping</i>
<i>RID-90</i>	<i>55-607220</i>	<i>Pumping</i>
<i>RID-91</i>	<i>55-607219</i>	<i>Pumping</i>
<i>RID-93</i>	<i>55-607217</i>	<i>Pumping</i>
<i>RID-96</i>	<i>55-607214</i>	<i>Pumping</i>
<i>RID-97</i>	<i>55-607213</i>	<i>Pumping</i>
<i>RID-98</i>	<i>55-607212</i>	<i>Pumping</i>
<i>RID-101</i>	<i>55-607209</i>	<i>Pumping</i>

16. What is the future use (up to 100 years) for any wells that have been impacted by the WVB WQARF site?

RID expects to retain and operate the above-listed wells to provide water supply for its customers. Currently, the wells in the WVB site provide water supply for irrigation but the wells will transition to drinking water supply as residential and commercial development continues in the District.

Thank you for your time. The project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow up on answers provided.

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions which are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility name: Air Liquide America LP, Phoenix Fill Plant

Date questionnaire was completed: 10 September 2007

Name of person completing questionnaire: Donna M. Smith

Address: Air Liquide USA LLC

2700 Post Oak Blvd, Ste 1800

Houston, TX 77056

Contact name: Phil Hagel, Facility Manager

Address: 301 S 45th Avenue

Phoenix, AZ 85043

Phone number: 602-763-1328

Property information

What is the current use of the property? Please include a detailed facility description.

Property is primarily used for the filling (from bulk containers) and distribution of cylinders of industrial, medical, and specialty gases. Facility also manufactures and distributes acetylene, as well as filling helium containers.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

There are no plans at this time to significantly change operations at the facility. Production rates fluctuate within a known range, depending on demand. No expansions, building construction, or shut-downs are anticipated in the foreseeable future.

3. Is the property owned or leased?

The property is owned.

4. Who is the owner of the property?

Name: Air Liquide America LP
Address: 2700 Post Oak Blvd, Ste 1800
Houston, TX 77056
Phone Number: 713-624-8000

5. If the property is leased, how long is the lease term?

N/A – the property is owned, not leased.

6. If the property is leased, are there plans to renew the lease and for how long?

N/A – the property is owned, not leased.

7. If the property is owned, do you plan on relocating and if so in what timeframe?

There are no plans for relocation in the foreseeable future.

B. Environmental Information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

Yes, three groundwater monitor wells exist on the property today. There is no current use of water in those wells, due to physical limitations.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

At present, there are no anticipated changes to the current use of water in the existing groundwater monitor wells at the Site. If groundwater level elevations in those monitor wells increase substantially, and physical conditions allow, then Air Liquide may consider using the water for environmental monitoring purposes.

3. Please list the company's waste streams?

Universal Wastes – lamps, batteries

Used Oil, from pumps, compressors and other lubricated equipment

Non-hazardous industrial trash

Non-hazardous office trash

Scrap metal

Non-hazardous carbide lime slurry (not normally generated – from upsets or equipment cleaning)

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

Carbide lime slurry from cooling tower malfunction

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

No sampling is currently being done; data from the groundwater monitoring program in late 2000 and 2001 was submitted to ADEQ for the groundwater database. Installation of four new wells and groundwater monitoring is to begin shortly under Consent Order Docket No 47-07.

Air Liquide anticipates that the four new monitor wells will be sampled and analyzed on a quarterly basis, and the results will be timely submitted to ADEQ as specified in the Consent Order.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

N/A. No wells on the property supplying drinking water.

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

Four groundwater wells will be drilled at this property during 2007. They will be used for monitoring groundwater quality in accordance with above-mentioned Consent Order.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

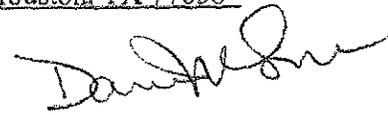
Facility does not have an environmental manager. Environmental issues are supported from the Houston HQ office.

Name: Donna M Smith

Title: Corporate Environmental Mgr

Address: ALUSA, 2700 Post Oak Blvd, Ste 1800, Houston, TX 77056

Phone Number: 713-402-2399



Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Chem Research

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Chem Research Co., Inc.
Date Questionnaire was completed: 9/17/07
Name of person completing Questionnaire: David Weed
Address: 1101 W. Hilton Ave.
Phoenix, AZ 85007

Contact Name: David Weed
Address: 1101 W. Hilton Ave.
Phoenix, AZ 85007
Phone Number: 602-253-4175

A. Property Information

1. What is the current use of the property? Please include a detailed facility description. Industrial metal finishing job shop.
Facility production and support functions are located at 1130 W. Hilton Ave, and is comprised of two buildings, and a wastewater treatment system. Most chemical processing takes place in Bldg A, and support functions, painting, and machining takes place in Bldg B.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

*Increased production within confines of existing facility.
Upgrade and improve facilities as necessary.*

3. Is the property owned or leased?

Owned

4. Who is the owner of the property?

Name:

Chem Research Co., Inc.

Address:

1101 W. Hilton Ave.

Phoenix, AZ 85007

Phone Number:

602-253-4175

5. If the property is leased, how long is the lease term?

6. If the property is leased, are there plans to renew the lease and for how long?

7. If the property is owned, do you plan on relocating and if so in what timeframe?

No

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation) *Yes - monitoring*

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number? *No*
7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for? *None anticipated.*

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: David Weed
Title: Director Regulatory Affairs + Facilities
Address: 1101 W. Hilton Ave.
Phone Number: 602-253-4175

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Jose & Maria Reyes

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: _____

Date Questionnaire was completed: 8/28/07

Name of person completing Questionnaire: Jose Luis Reyes

Address: 9931 W. Calle Encovada

Phoenix AZ

85037

Contact Name: Jose Luis Reyes

Address: Same

(623) 872-0109

Phone Number: (602) 326-0327

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Palet recycled yard

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

"UNK" No changes

3. Is the property owned or leased?

OWN

4. Who is the owner of the property?

Name:

Jose Luis Reyes

Address:

9931 W. CALLE ENGORVADA

Phoenix, AZ 85037

Phone Number:

Home 603 8720109 ; 602 3260327 cell

5. If the property is leased, how long is the lease term?

1 YEAR

6. If the property is leased, are there plans to renew the lease and for how long?

YES 1 YEAR

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NO

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

Well WATER supply amount undetermined

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

No

3. Please list the company's waste streams?

SEPTIC SYSTEM

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NONE

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

No

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

YES - 8

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NO

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: _____ NONE _____
Title: _____
Address: _____
Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Edith Jackson

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: JACKSON RESIDENCE
Date Questionnaire was completed: 8/23/07
Name of person completing Questionnaire: Chris Jackson
Address: 5727 W. Van Buren
Phoenix, AZ
85043
Contact Name: Chris Jackson
Address: 5727 W. Van Buren
Phoenix, AZ 85043
Phone Number: 602-505-0665

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Residential

(.5 acre with 2 homes)

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

probably in path of loop 101
future development

3. Is the property owned or leased?

owned

4. Who is the owner of the property?

Name:

Edith Jackson

Address:

5727 W. Van Buren

Phx, AZ 85043

Phone Number:

5. If the property is leased, how long is the lease term?

N/A

6. If the property is leased, are there plans to renew the lease and for how long?

N/A

7. If the property is owned, do you plan on relocating and if so in what timeframe?

only if forced to do so by loop 101
development.

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

yes,

drinking water/water supply for 2 houses

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

UNK

3. Please list the company's waste streams?

septic tanks on property

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

none known

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

*We haven't done sampling,
but ADEQ has sampled
for the groundwater database*

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

4 people served

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

No

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information: *No environmental manager*

Name: _____
Title: _____
Address: _____
Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Darin Hanson

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Darin Hanson
Date Questionnaire was completed: 8-23-07
Name of person completing Questionnaire: Darin Hanson
Address: 7300 N Van Buren
Phx AZ 85043

Contact Name: Darin Hanson
Address: _____

Phone Number: 602-432-9054

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

HORSE Boarding Facility -
Living Dwelling - TIRE REPAIR -
Business

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

LIVE HERE as long as possible - maybe sold in future because of Industrial Buildings are BEING BUILT around me.

3. Is the property owned or leased?

owned

4. Who is the owner of the property?

Name:

Address:

Phone Number:

DORIN HANSON

002-432-9054

5. If the property is leased, how long is the lease term?

6. If the property is leased, are there plans to renew the lease and for how long?

7. If the property is owned, do you plan on relocating and if so in what timeframe?

I DON'T KNOW

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

yes, drinking water for me and horses, cattle etc,

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NO, I DON'T THINK SO.

3. Please list the company's waste streams?

DON'T KNOW

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

DON'T KNOW
(NONE)

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

many people + horses -
I Don't know what the PWS #
is

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

yes, I DON'T know unless
the previous well goes Bad.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: _____
Title: _____
Address: _____
Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Straight Arrow Enterprises LLC

LAND AND WATER USE STUDY QUESTIONNAIRE FOR PROPERTIES OWNERS WITHIN THE WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: STRAIGHT ARROW ENTERPRISES, LLC
Date Questionnaire was completed: 8/30/2007
Name of person completing Questionnaire: BARRY BALES
Address: 5723 N. 70TH PLACE
SCOTTSDALE, AZ 85253

Contact Name: BARRY BALES
Address: 5723 N. 70TH PLACE
SCOTTSDALE, AZ 85253
Phone Number: 602/765-5656

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

This property is owned by Straight Arrow Enterprises, LLC, and is leased to various tenants at various times. The present tenants are a pallet construction and repair company and a trucking company.

Valley Pallet Recycler, Inc
6644 West Buckeye Road
Phoenix, AZ 85043

J.D. Andrews Trucking
6640 W. Buckeye Road
Phoenix, AZ 85043

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

No changes are currently planned.

3. Is the property owned or leased? *Owned by Straight Arrow Ent, LLC, presently leased to two tenants*

4. Who is the owner of the property?

Name:

STRAIGHT ARROW ENTERPRISES, LLC

Address:

6615 E. LAFAYETTE BLVD

SCOTTSDALE, AZ 85251

Phone Number:

480-945-2265

5. If the property is leased, how long is the lease term?

Present leases run from two to three years with possible extensions

6. If the property is leased, are there plans to renew the lease and for how long?

Depends on lessees

7. If the property is owned, do you plan on relocating and if so in what timeframe?

N/A

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

There is one well. The use is for domestic purposes, including sanitary facilities and landscape.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

There are no plans.

3. Please list the company's waste streams?

Tenants have no waste streams

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

None known.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

No.

However, the Arizona DEQ tested a sample on 3/21/2006. A copy is attached.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number? *One domestic well. There is no public water supply at the property.*

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

Do not anticipate any future wells.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: _____
Title: _____
Address: _____
Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Stephen A. Owens
Director

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Return Receipt

RPU07:076

August 30, 2006

Mr. Barry Bales
5723 North 70th Place
Scottsdale, Arizona 85253

RE: Laboratory Report for the March 2006 Groundwater Sampling Event

Dear Mr. Bales,

Enclosed please find a copy of the laboratory report for the groundwater sample collected from your well at 6644 West Buckeye Road in Phoenix, Arizona by the Arizona Department of Environmental Quality (ADEQ) on March 21, 2006. The groundwater sample was analyzed for volatile organic compounds (VOCs) which are present in the groundwater in the vicinity of your home. None of the VOCs analyzed were detected in the groundwater sample collected from your well. Based on this information, the groundwater contamination does not appear to be present at the depth from which your well is extracting groundwater. The ADEQ would like to sample your well again in the future to confirm the results of this sampling event. We will contact you prior to sampling to set up a time and day that is suitable for your schedule.

Thank you again for your cooperation in allowing ADEQ to collect groundwater samples from your well. Please contact Jennifer Edwards at 602/771-4703 or Kevin Snyder at 602/771-4186, if you have any questions or comments concerning the analytical data.

Sincerely,

Jennifer Edwards, Project Manager
Remedial Projects Unit (RPU)

Attachment

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733



**TRANSWEST
GEOCHEM**

Date Printed 05-Apr-06

License No. AZM133/AZ0133

CLIENT: Terranext
 Work Order: 0603378
 Lab ID: 0603378-04
 Project Name: WVBS
 Project Number: 0310-3154

Client Sample ID: 55-600656
 Collection Date: 3/21/2006 10:50:00 AM
 Matrix: Water

Analyte	Result	PQL	Qual	Units	DF	Test Code	Date Prepared	Date Analyzed	Analyst	Batch ID
Acetone	<20	20	L1	µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Benzene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Bromobenzene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Bromochloromethane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Bromodichloromethane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Bromoform	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Bromomethane	<5.0	5.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
2-Butanone	<5.0	5.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
n-Butylbenzene	<2.5	2.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
sec-Butylbenzene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
tert-Butylbenzene	<2.5	2.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Carbon disulfide	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Carbon tetrachloride	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Chlorobenzene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Dibromochloromethane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Chloroethane	<5.0	5.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Chloroform	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Chloromethane	<5.0	5.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
2-Chlorotoluene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
4-Chlorotoluene	<2.0	2.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,2-Dibromo-3-chloropropane	<2.0	2.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,2-Dibromoethane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Dibromomethane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,2-Dichlorobenzene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,3-Dichlorobenzene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,4-Dichlorobenzene	<1.5	1.5		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Dichlorodifluoromethane	<2.0	2.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,1-Dichloroethane	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,2-Dichloroethane	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,1-Dichloroethene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
cis-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
trans-1,2-Dichloroethene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,2-Dichloropropane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,3-Dichloropropane	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
2,2-Dichloropropane	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
1,1-Dichloropropene	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
cis-1,3-Dichloropropene	<1.0	1.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
trans-1,3-Dichloropropene	<0.50	0.50		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Ethylbenzene	<2.0	2.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A
Hexachlorobutadiene	<5.0	5.0		µg/L	1.0	SW8260B	N/A	3/30/06 15:07	BH	R60330A

Southwest Trail Boss

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: TRAIL BOSS

Date Questionnaire was completed: 09/07/07

Name of person completing Questionnaire: CHRIS THOMPSON

Address: 345 S. 83RD AVENUE
TOLLESON, AZ 85353

Contact Name: CHRIS THOMPSON

Address: 345 S. 83RD AVENUE
TOLLESON, AZ 85353

Phone Number: 602-437-2223

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

RESIDENCE AND TRAILER MFG.

HOUSE AND SMALL INDUSTRIAL BUILDING

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

REPLACE EXISTING BUILDINGS

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

JOHN THOMPSON

Address:

345 S. 83RD AVENUE

TOLLESON, AZ 85353

Phone Number:

602-437-2223

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

UNK

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

YES, WATER SUPPLY & IRRIGATION

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NO

3. Please list the company's waste streams?

SEWER

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NONE

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NO

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information: NO

Name: _____
Title: _____
Address: _____
Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: HEAD / Penn Racquet Sports
Date Questionnaire was completed: 09 / 10 / 2007
Name of person completing Questionnaire: Marc Conway
Address: 306 South 45th Avenue
Phoenix, AZ 85043

Contact Name: Wayne Smith
Address: 306 South 45th Avenue
Phoenix, AZ 85043
Phone Number: (602) 447-2252

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

The Penn facility manufactures tennis and racquetballs. The 17.87 acre site has four main structures. The 114,800 square foot manufacturing plant, a 6,400 square foot R&D / Conference building, a 11,820 square foot Administration building, and a 2,000 square foot Rubber Storage structure.

The facility also includes:

- **A vacant dirt parcel totaling 180,000 square feet located along the northeastern portion of the site,**
- **A tank farm located near the southwestern corner of the site including a 15,000-gallon hexane tank, a 7,000-gallon process oil tank, and a 88,000-gallon fuel oil tank (which is empty and not in use),**
- **A canopied storage area located along the west portion of the site for storage of hazardous waste, new and used oil, and corrosive liquids,**
- **A plant utility area including two transformers, three cooling towers, a hexane recovery system, and a natural gas reducing station.**

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

UKN

3. Is the property owned or leased?

Owned

4. Who is the owner of the property?

Name: Penn Racquet Sports, Inc.
Address: 306 South 45th Avenue
Phoenix, AZ 85043
Phone Number: (800) 289-7399

5. If the property is leased, how long is the lease?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NA

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring irrigation, remediation)

There were five monitoring wells located on the property. Four were closed in 2003, and one (MW-4) is used by ADEQ for sampling.

2. Are there any proposed changes to the current use of water in the wells from items #1 anticipated for the next 100 years?

NA

3. Please list the company's waste streams?

Refuse, waste rubber cement, waste cleaning solvent, used oil, grease pit rags, scrap tennis ball cores, and scrap tennis ball felt,

4. Please list any spill of material or waste product that has occurred at the facility in the past 5 years.

None.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the ground water database?

No.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

No.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Marc Conway
Title: Associate Engineer / EH&S Coordinator
Address: 306 South 45th Avenue
Phoenix, AZ 85043
Phone Number: (602) 447-2211

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., May follow-up on answers provided.

LA/Yuma Freight Lines, Inc

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: LOS ANGELES YUMA FREIGHT LINES INC - WASHUM ENTERPRISES

Date Questionnaire was completed: OCTOBER 31, 2007

Name of person completing Questionnaire: DON WASHUM

Address: PO BOX 4849 - 800 PACIFIC AVENUE
YUMA, ARIZONA 85366-4849

Contact Name: DON WASHUM

Address: PO BOX 4849
YUMA, ARIZONA 85366-4849

Phone Number: 928-782-2503

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

1101 NORTH 27TH AVENUE IS A TRUCK TERMINAL - I BUILDING ONLY - NO FUEL TANKS - EVERYTHING BOUGHT AT CARDLOCK SITS ON ABOUT 2½ ACRES - ASPHALT PAVING. THE PROPERTY IS CURRENTLY USED AS A TRANSPORT TRUCK FREIGHT TERMINAL. FREIGHT IS TRANSFERED FROM OVER THE ROAD VEHICLES TO LOCAL DELIVERY VEHICLES. MINIMAL VEHICLE MAINTENANCES IS PERFORMED AT THIS SITE BY AN OUTSIDE SERVICE. NOTHING DONE IN HOUSE.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

PROPERTY IS TOO SMALL, WILL EITHER FIND LARGER TERMINAL,
SHUTDOWN BY END OF DECEMBER 2007 AND SOLD AT THAT TIME.
POSSIBLE THE TERMINAL FACILITY WILL BE TORN DOWN AT THAT
TIME.

3. Is the property owned or leased?

PROPERTY IS OWNED BY THE WASHUMS AND IS IN A PARTNERSHIP TRUST.

4. Who is the owner of the property?

Name: LOS ANGELES YUMA FREIGHT INES
Address: PLACED IN WASHUM PARTNERSHIP TRUST
PO BOX 4849 YUMA ARIZ 85366-4849
Phone Number: 928-782-2503

5. If the property is leased, how long is the lease term?

OWNED AND NOT LEASED.

6. If the property is leased, are there plans to renew the lease and for how long?

UNKNOWN UTILIZATION AT THIS TIME. WILL NOT
KNOW UNTIL DECEMBER 2007

7. If the property is owned, do you plan on relocating and if so in what timeframe?

RELOCATION YES - WONT KNOW TILL DECEMBER 2007

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

THERE ARE CURRENTLY 2 GROUNDWATER MONITORING WELLS
ON THE SITE.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

THE MONITORING WELLS HAVE NOT SHOWN ANY COMPOUNDS AT CONCENTRATIONS GREATER THAN THE AQUIFER WATER QUALITY STANDARDS (AWQS) FOR SEVERAL ROUNDS OF TESTING AND WILL EVENTUALLY BE REMOVED WHEN CLOSURE FOR THE SITE IS ACHIEVED.

3. Please list the company's waste streams?

NO WASTE STREAMS. OIL CHANGES ARE DONE BY OUTSIDE MAINTENANCE, USED TIRES GO TO REDBURN TIRE AS WE DO NO RECAPPING. BATTERIES ARE TRADED IN FOR NEW BATTERIES. LINE EQUIPMENT IS BROUGHT TO YUMA TO BE SERVICED. NO IN-HOUSE MAINTENANCE IN PHOENIX.

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NO REPORTABLE SPILLS HAVE OCCURED AT THE FACILITY IN THE PAST FIVE YEARS.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

ANNUAL SAMPLING HAS BEEN CONDUCTED ON THE SITE BY ADEQ UNDER PROJECT #WVBA/#03103154.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

THERE ARE NO GROUNDWATER WELLS ON THE SITE USED FOR DRINKING WATER. SITE IS ON CITY WATER USED FOR DRINKING AND FLUSHING TOILETS.

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

WE DO NOT ANTICIPATE DRILLING ANY ADDITIONAL GROUNDWATER WELLS IN THE FORESEEABLE FUTURE

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: DON WASHUM
Title: PRES
Address: 800 PACIFIC AVENUE YUMA AZ
Phone Number: 928-782-2503

ENVIRONMENTAL MANAGEMENT IS HANDLED IN HOUSE
AND WITH THE ASSISTANCE OF CONSULTANTS WHEN
NECESSARY.

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Maricopa County - Phoenix Terminal

LAND AND WATER USE STUDY QUESTIONNAIRE FOR PROPERTIES OWNERS WITHIN THE WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Caljet Monroe I
Date Questionnaire was completed: 9/2/2007
Name of person completing Questionnaire: Dave Alexander
Address: 125 N 53rd Ave
Phoenix, AZ 85043

Contact Name: John Milligan
Address: 125 N 53rd Ave
Phoenix, AZ 85043
Phone Number: 602 272-5522

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

a refined product terminal. We receive diesel from the Kinder Morgan Pipeline. Caljet handle the product for the owner of the fuel and at their direction loads their fuel into their nominated trucks. Lubricity additive is also added to each load dispensed. The facility currently has four tanks 2 x 15 m barrels + 2 x 40 m barrels and one loading lane.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

In 2008 we will begin an expansion that will add about 250M barrels of storage + 3 additional loading lanes.

3. Is the property owned or leased?

Owned

4. Who is the owner of the property?

Name:

Quikjet LLC

Address:

125 N 53rd Ave

Phoenix AZ 85043

Phone Number:

602 272-5522

5. If the property is leased, how long is the lease term?

N/A

6. If the property is leased, are there plans to renew the lease and for how long?

N/A

7. If the property is owned, do you plan on relocating and if so in what timeframe?

N/A Facility cannot be moved due to its required connection to the Kinder Morgan Pipeline.

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

N/A

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

N/A

3. Please list the company's waste streams?

None

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NO

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

N/A

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NO

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: John Millican
Title: Operations Manager
Address: 125 N 53rd Ave
Phone Number: Phoenix AZ 85043

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Mr. Adrian Cat

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: NONE

Date Questionnaire was completed: 9/10/07

Name of person completing Questionnaire: ADRIAN CAT

Address: 710 W. BUCHANAN ST
PHOENIX, AZ 85007

Contact Name: ADRIAN CAT

Address: 710 W. BUCHANAN ST
PHOENIX AZ 85007

Phone Number: 623-217-3003

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

PROPERTY IS VACANT

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

PROPERTY IS FOR SALE

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

ADRIAN CAT

Address:

710 W. RUCHANAN ST
PHOENIX, AZ 85007

Phone Number:

623-217-3003

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NA

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

MONITORING WELL

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NO

3. Please list the company's waste streams?

NONE

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NONE

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NO

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information: NO ENVIRONMENTAL MANAGER

Name: _____

Title: _____

Address: _____

Phone Number: _____

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

BP West Coast Products/ARCO
Phoenix Terminal

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: PHOENIX TERMINAL
Date Questionnaire was completed: 8/28/07
Name of person completing Questionnaire: RAYMOND L. WAGNER
Address: 5333 WEST VAN BUREN ST.
PHOENIX, AZ. 85043

Contact Name: SAME AS ABOVE
Address: " " "

Phone Number: 602-278-8524

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

WE RECEIVE AND DISTRIBUTE DIESEL FUEL AND
GASOLINE PRODUCTS WITH ETHANOL AND ADDITIVES
SUCH AS LUBRICITY, CONDUCTIVITY, AND RED DYE.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

EXPAND LOADING RACK, INSTALL ETHANOL PIPELINE,
RELOCATE OFFICE BUILDING, VAPOR RECOVERY UNIT INSTALLATION

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

BP WEST COAST PRODUCTS LLC

Address:

5333 WEST VAN BUREN ST.

PHOENIX, AZ. 85043

Phone Number:

602-278-8524

5. If the property is leased, how long is the lease term?

NOT LEASED

6. If the property is leased, are there plans to renew the lease and for how long?

NOT LEASED

7. If the property is owned, do you plan on relocating and if so in what timeframe?

PROPERTY IS OWNED AND THERE ARE NO PLANS TO
RELOCATE.

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

YES, DRY WELLS FOR STORM WATER MANAGEMENT.

GROUND WATER MONITORING WELLS, NO EXTRACTION WELLS
ARE ON SITE.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NONE EXPECTED AT THIS TIME UNLESS WELLS ARE REPLACED IN KIND FOR MAINTENANCE PURPOSES, OR WELLS ARE ADDED FOR REMEDIATION PURPOSES.

3. Please list the company's waste streams?

PETROLEUM CONTAMINATED DEBRIS.

- TANK CLEANING
- TANK BOTTOMS
- PARTS CLEANER
- DRAINED USED OIL FILTERS
- RAGS, PPE
- RECOVERED OIL FOR REPROCESSING
- LAMPS, BATTERIES
- SPENT CARBON

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

2/2005 A TWENTY GALLON SPILL OF GASOLINE AT THE TRUCK LOAD RACK INTO CONTAINMENT. PRODUCT WAS RECOVERED WITHOUT RELEASE TO GROUNDWATER.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

YES, QUARTERLY, YES ANALYTICAL RESULTS ARE SUBMITTED VIA SECOR INTERNATIONAL INC.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NONE

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NO IT IS NOT EXPECTED UNLESS A NEW
REMEDATION WELL SYSTEM IS NEEDED.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: DEBRA PORTELLO
Title: HSE ADVISOR
Address: 1306 CANAL BLVD. RICHMOND, CA. 94804
Phone Number: (510) 231-4704

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Maricopa County Materials

LAND AND WATER USE STUDY QUESTIONNAIRE FOR PROPERTIES OWNERS WITHIN THE WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Maricopa County Warehouse

Date Questionnaire was completed: August 31, 2007

Name of person completing Questionnaire: Rita Neill

Address: 320 W. Lincoln Drive
319 W. Buchanan St.
510 S. 3rd Ave.

Contact Name: Rita Neill

Address: Maricopa County Risk Management
222 N. Central Avenue, Ste. 1110
Phoenix, AZ 85004

Phone Number: 602-506-5063

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

The property is used for offices and warehousing. The Materials Management Department is located at 320 W. Lincoln Drive. MM Department offices occupy 7,163 sq. ft. on the 2nd floor and the Graphics Center occupies 6,560 sq ft on the southeast corner of the 1st floor. The Sheriff's Warehouse located at 319 W. Buchanan St., occupies 22,820 sq. ft. on the western portion of the building. The Election Department is located at 510 S. 3rd Ave. in the newer eastern building addition. Election Offices and warehousing occupy 93,240 sq. ft.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

There are no plans for expansion at this time.

3. Is the property owned or leased?

Owned

4. Who is the owner of the property?

Name: Maricopa County
Address: Real Estate Department
301 W. Jefferson, 9th floor
Phone Number: Phoenix, AZ 85003
Attn: Dennis Lindsey, Real Estate Manager
602-506-1067

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NO

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

Yes, there are several monitoring wells installed for groundwater monitoring in West Van Buren WQARF - MC-01, MC-02, MC-03, MC-04, MC-05, MC-N06 (#2, #3).

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

No planned changes at this time.

3. Please list the company's waste streams?

The waste streams from the facility include municipal sanitary sewage and municipal trash. In addition the Graphics Center collects printing waste (primarily water soluble materials) in a 55-gallon drum that is collected and serviced by Solvent Systems, Inc.

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

There have been no spills of material or waste products at this facility in the past 5 years.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

Maricopa County previously sampled groundwater from the monitoring wells. Following our settlement with the State of Arizona with regards to this property, we ceased sampling and the site wells were incorporated into ADEQ's annual West Van Buren WQARF monitoring. Also at this time, under a limited access agreement with the County, APS is conducting water level monitoring and sampling of County wells as part of their EPA required Site Characterization for the Motorola Superfund Area of the APS facility located immediately east of the County's facility.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

The County does not anticipate drilling groundwater wells on this site.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Rita Neill
Title: Environmental Programs Manager
Address: Maricopa County Risk Management
Phone Number: 222 N. Central Avenue, Ste. 1110
Phoenix, AZ 85004
602-506-5063

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Specialty Textile Services

LAND AND WATER USE STUDY QUESTIONNAIRE FOR PROPERTIES OWNERS WITHIN THE WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: SPECIALTY TEXTILE SERVICES
Date Questionnaire was completed: 8/27/07
Name of person completing Questionnaire: Eric Dumont
Address: 720 W. BUCHANAN ST.
PHOENIX AZ
85007
Contact Name: Eric Dumont
Address: 737 W. BUCHANAN ST.
PHOENIX AZ 85007
Phone Number: ERICA@SPECIALTYTEXTILE.COM

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

LAUNDRY

- PROCESS TOWELS AND LINENS FOR ROOMS AT RESORTS
- PROCESS NAPKINS, TABLETOPS AND KITCHEN TOWELS FOR RESORTS AND RESTAURANTS
- F-1 FACILITY WITH 27,350 SQ FT. OF PRODUCTION AREA

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible? Plan of 10% growth / year

3. Is the property owned or leased? LEASED

4. Who is the owner of the property?

Name:

AMERICAN LINEN SUPPLY CO.

Address:

1326 5TH AVE # 711

SEATTLE WASHINGTON 98101-2640

Phone Number:

(206) 682-7306

5. If the property is leased, how long is the lease term?

OCT 1, 2004 TO SEP 30, 2008

6. If the property is leased, are there plans to renew the lease and for how long?

YES, 5 MORE YEARS

7. If the property is owned, do you plan on relocating and if so in what timeframe?

N/A

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

YES, MONITORING

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years? UNKNOWN

3. Please list the company's waste streams?

ONE WASTEWATER LINE TO SEWER FROM WASHING MACHINES.

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years. NONE

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO - MONITORING WELLS BEING TESTED BY THE STATE OF ARIZONA.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number? N/A

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

UNKNOWN

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Eric Dumont
Title: OPERATIONS MANAGER
Address: 737 W. BUCHANAN ST PHO A2 85007
Phone Number: (602) 252-9230

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

P.O.S.

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: PRUDENTIAL OVERALL SUPPLY
Date Questionnaire was completed: 8/28/07
Name of person completing Questionnaire: LEE TERRY
Address: 5102 W. ROOSEVELT
PHOENIX, AZ

Contact Name: LEE TERRY
Address: 1661 ALTON PKWY
IRVINE, CA 92606
Phone Number: 949-250-4855

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

INDUSTRIAL LAUNDRY - UNIFORM + GARMENT
PROCESSING - DELIVERY SERVICE

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

OPERATIONS SAME AS CURRENT

3. Is the property owned or leased?

OWNED BY P.O.S.

4. Who is the owner of the property?

Name:

P.O.S.

Address:

SAME AS ABOVE

Phone Number:

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NO

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

NO

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NA

3. Please list the company's waste streams?

INDUSTRIAL WASTE WATER DISCHARGE
PRETREATMENT SOLID WASTE - LANDFILL

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NA

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

NO

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

YES, GWM WELLS FOR AQUIFER MONITORING + POSSIBLE REMEDIATION PER ADEQ.

P.O.S. will FORMALLY REQUEST USING GW FOR LAUNDRY PROCESSING.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name:

LEE TERRY

Title:

DIRECTOR, ENV. + SAFETY

Address:

1661 ALTON PARKWAY, IRVINE, CA 92603

Phone Number:

949-250-4855

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Joseph Groves

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: ACTION FABRICATING OF AZ
Date Questionnaire was completed: 8-28-07
Name of person completing Questionnaire: AARON SCHMIOT
Address: 1244 HAWK STREET
DETROIT LAKES, MN 56501

Contact Name: JOE GROVES, AARON SCHMIOT
Address: S.A.A

Phone Number: 218-647-4034

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

SHEET METAL FORMING. BUILDING HOUSES SHEET
METAL FORMING EQUIPMENT, STAMPING EQUIP,
WELDING. BUILDING IS BLOCK WALL. CEMENT
FLOOR

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

WOULD LIKE TO INCREASE AMOUNT OF MACHINES
OVER TIME, BUT UN-FORESEEABLE AT THIS TIME

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

THE GROVES

Address:

1244 HAWK ST

DETROIT LAKES, MN 56501

Phone Number:

218-947-4024

5. If the property is leased, how long is the lease term?

/

6. If the property is leased, are there plans to renew the lease and for how long?

/

7. If the property is owned, do you plan on relocating and if so in what timeframe?

UNKNOWN AT THIS TIME

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

NONE

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NO / N/A

3. Please list the company's waste streams?

CITY SEWER SYSTEM

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

NONE

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

No

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NS

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

NS

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: _____
Title: _____
Address: _____
Phone Number: _____

> NONE

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Dolphin Incorporated

Date Questionnaire was completed: September 5, 2007

Name of person completing Questionnaire: David Grisa

Address: 740 South 59th Avenue
Phoenix, Arizona

Contact Name: David Grisa

Address: 740 South 59th Avenue
Phoenix, Arizona

Phone Number: 602-272-6747

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Dolphin, Incorporated (Dolphin's) manufacturing facility (the "Site") is located at 740 South 59th Avenue in Phoenix, Arizona. Dolphin operates a precision investment-casting foundry at the Site to manufacture commercial parts, custom golf club heads, and other cast metal products. The Site is bounded to the east by 59th Avenue, to the south by West Sherman Street, to the west by 61st Avenue, and to the north by a Southern Pacific Railroad right of way. Four primary manufacturing areas, referred to as Dolphin I, Dolphin III, Dolphin VI, and Dolphin VII, are present at the Site. These areas occupy approximately 13.5 acres and consist of several buildings used for conducting different manufacturing processes. The surface of the Site is relatively flat and has been graded to direct storm water run-off into retention basins and drywells. Most of the ground surface is covered by existing structures, concrete, or asphalt. Chain-link fences with locking gates restrict access to the Site.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

It is feasible that we have to make additions to current structures to keep up with customer growth along with technology growth for our industry

3. Is the property owned or leased?

The property is owned

4. Who is the owner of the property?

Name: Dolphin Incorporated
Address: 740 South 59th Avenue
Phone Number: 602-272-6747

5. If the property is leased, how long is the lease term?

Not Applicable

6. If the property is leased, are there plans to renew the lease and for how long?

Not Applicable

7. If the property is owned, do you plan on relocating and if so in what timeframe?

There are no plans to relocate

B. Environmental Information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (E.g. – drinking water, water supply, monitoring, irrigation, remediation)

There are 9 groundwater wells on the property. They consist of 3 Westbay wells and 6 single completion wells. They are used for groundwater monitoring.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

There are no proposed changes for the use of the wells.

3. Please list the company's waste streams?

Kolene Rinse water (D002, D007); Filter Cake (D007); Evaporator Sludge (D007); Used Methanol; Used Potassium Hydroxide; Used Oil; Universal Waste; Waste wax; Waste Refractory Shell; Grinding Belts & Saw Blades; scrap metal; cardboard; office paper

4. Please list any spill of materials or waste products that has occurred at the facility in the past 5 years.

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

Dolphin currently samples all 9 wells semiannually (March and September). The results are submitted to ADEQ for the groundwater database.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

Not Applicable

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

Dolphin does not anticipate drill any additional groundwater wells.

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's/company's information:

Name: David Grisa
Title: EH&S Manager
Address: 740 South 59th Avenue Phoenix, AZ 85043
Phone Number: 602-272-6747 extension 3361

Brown & Caldwell
Philip Lagas Vice President
201 E Washington St Suite 500
Phoenix, AZ 85004
602-567-3851

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Univar Corp.

CTS: 169979
V: 30

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Univar USA Inc.
Date Questionnaire was completed: Oct 14, 2007
Name of person completing Questionnaire: Michael Gaudette
Address: Univar USA Inc.
1804 N 20th St.
Nampa, ID 83687
Contact Name: Michael Gaudette
Address: 1804 N 20th St
Nampa, ID 83687
Phone Number: 208/888-1094

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Chemical distribution facility

Land and Water Use Study Questionnaire
West Van Buren WQARF Registry Site

Page 2 of 4

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

THERE ARE NO PLANS FOR BUILDING EXTENSIONS IN THE FUTURE. INCREASED PRODUCTION HAS AVERAGED ABOUT 1% PER YEAR AND SHOULD CONTINUE IN THE FORESEEABLE FUTURE.

3. Is the property owned or leased?

OWNED

4. Who is the owner of the property?

Name:

UNIVAR USA INC.

Address:

17425 NE UNION HILL ROAD

REDMOND, WA 98052

Phone Number:

(425) 889-3400

5. If the property is leased, how long is the lease term?

N/A

6. If the property is leased, are there plans to renew the lease and for how long?

N/A

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NO, THERE IS NO PLAN FOR RELOCATING IN THE FORESEEABLE FUTURE.

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. - drinking water, water supply, monitoring, irrigation, remediation)

There are two monitoring wells on the property.

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

No

3. Please list the company's waste streams?

- Ignitable spent non-halogenated solvent mixture
- Aged virgin products (varies from year to year)
- Off-spec virgin products (varies from year to year)
- Corrosive spent acidic liquid mixture
- Corrosive spent basic liquid, inorganic
- Inorganic solid (filter cake) w/ heavy metals

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

Ferric Chloride Solution (40% aqueous)

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

No, ADEQ's contractor samples the wells.

6. If there are any groundwater wells on the property that supply drinking water, how many people are served and what is the Public Water Supply (PWS) number?

NA

7. Do you anticipate that any groundwater wells will be drilled in the next 100 years at this property? If yes, what will the water be used for?

No

8. Does your facility have an environmental manager or is environmental management outsourced to an environmental consulting firm? If so, please list the person's information:

Name: Michael Gaudette
Title: Senior Project Manager
Address: 1804 N 20th St, Nampa ID 83687
Phone Number: 208/888-1094

Thank you for your time. The Project Manager, Jennifer Edwards Thies, or a representative from ADEQ's consultant, Terranext, Inc., may follow-up on answers provided.

Americold Logistics

CTS: 169926
V: 30

LAND AND WATER USE STUDY QUESTIONNAIRE
FOR PROPERTIES OWNERS WITHIN THE
WEST VAN BUREN WQARF REGISTRY SITE

Please answer all questions. Mark "NA" for questions that are not applicable. Mark "UNK" if the answer is unknown to you at the time of completion. Please attach any additional pages as needed.

Facility Name: Americold Logistics
Date Questionnaire was completed: 9/4/07
Name of person completing Questionnaire: Chris Miller
Address: 455 S. 75th Ave.
Phoenix, AZ 85043

Contact Name: Same
Address:

Phone Number: 623-936-1733

A. Property Information

1. What is the current use of the property? Please include a detailed facility description.

Frozen Food Warehouse.

2. What are the foreseeable plans for the property (extension of buildings, increased production, etc.) as far into the future as they are known and up to 100 years, if possible?

NA

3. Is the property owned or leased?

owned

4. Who is the owner of the property?

Name:

Art Most Borrow/Amer. Cold #403

Address:

10 Glenlake Pkwy South Tower

Atlanta, Georgia 30328

Phone Number:

5. If the property is leased, how long is the lease term?

NA

6. If the property is leased, are there plans to renew the lease and for how long?

NA

7. If the property is owned, do you plan on relocating and if so in what timeframe?

NA

B. Environmental information

1. Are there any groundwater wells on the property? If so, what is the current use of water in those wells? (e.g. – drinking water, water supply, monitoring, irrigation, remediation)

yes, but not used

2. Are there any proposed changes to the current use of water in the wells from item #1 anticipated for the next 100 years?

NO

3. Please list the company's waste streams?

Sanitary Sewer

4. Please list any spill of material or waste products that has occurred at the facility in the past 5 years.

Ø

5. Is your company currently sampling any groundwater wells on the property? If so, how often is the sampling conducted? Are analytical results being submitted to ADEQ for the groundwater database?

APPENDIX B
CITY OF PHOENIX GENERAL PLAN MAPS

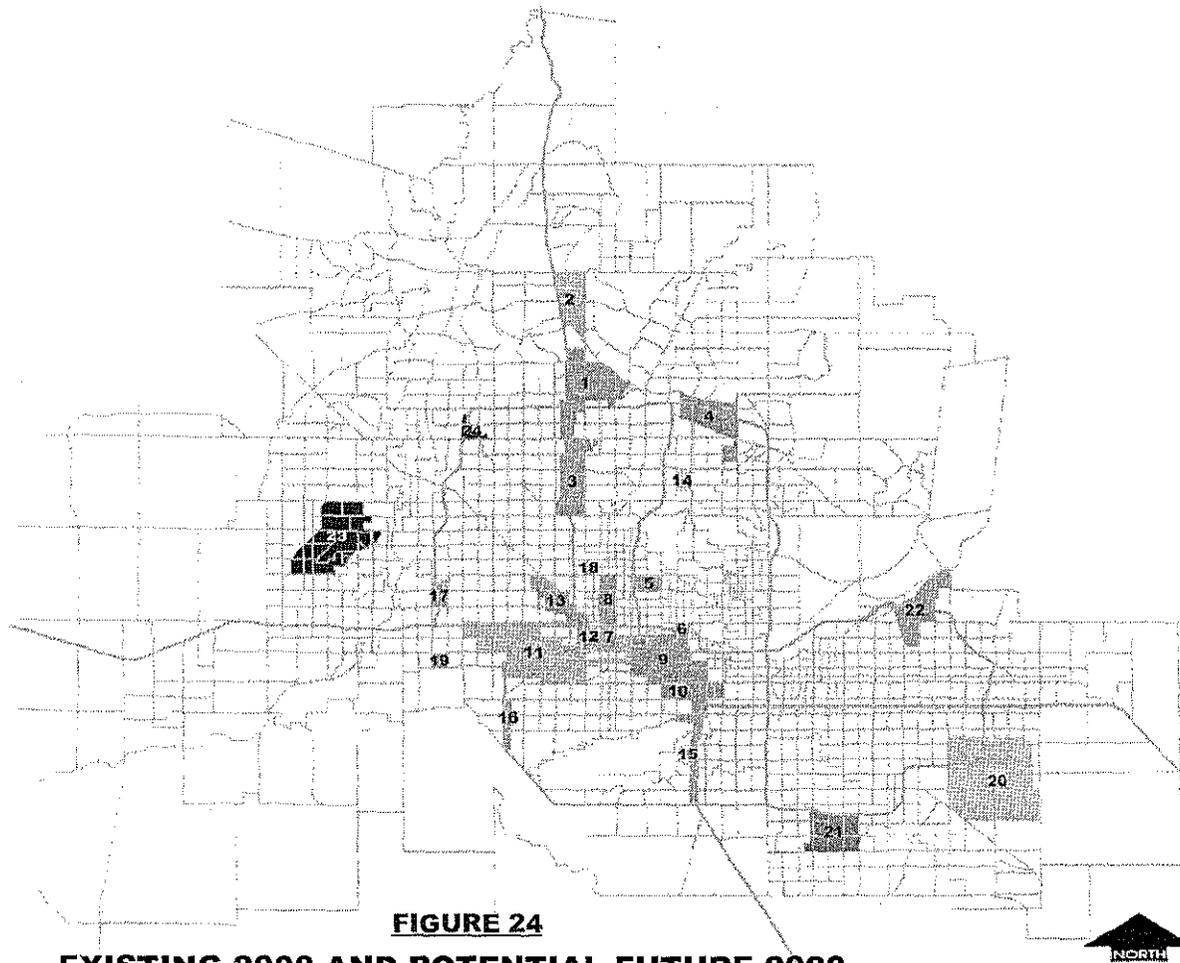


FIGURE 24

**EXISTING 2000 AND POTENTIAL FUTURE 2020
PLACES OF EMPLOYMENT CONCENTRATION**

- | | | |
|---------------------------|--------------------------------|---------------------------------|
| 1 - DEER VALLEY | 8 - NORTH CENTRAL AVENUE | 16 - FUTURE SOUTH MOUNTAIN LOOP |
| 2 - NORTH BLACK CANYON | 9 - SKY HARBOR AIRPORT | 17 - PHOENIX LOOP 101 |
| 3 - NORTH I-17 | 10 - PHOENIX BROADWAY CURVE | 18 - CAMELBACK/19TH AVENUE |
| 4 - DESERT RIDGE/KIERLAND | 11 - SOUTHWEST PHOENIX | 19 - BUCKEYE/107TH AVENUE |
| 5 - CAMELBACK CORRIDOR | 12 - SOUTH CENTRAL INDUSTRIAL | 20 - WILLIAMS AIR PARK |
| 6 - GATEWAY | 13 - PHOENIX GRAND AVENUE | 21 - CHANDLER AIR PARK |
| 7 - DOWNTOWN PHOENIX | 14 - PARADISE VALLEY MALL AREA | 22 - FALCON FIELD |
| | 15 - SOUTH MOUNTAIN FOOTHILLS | 23 - LUKE AIR BASE |
| | | 24 - ARROW HEAD CENTER |

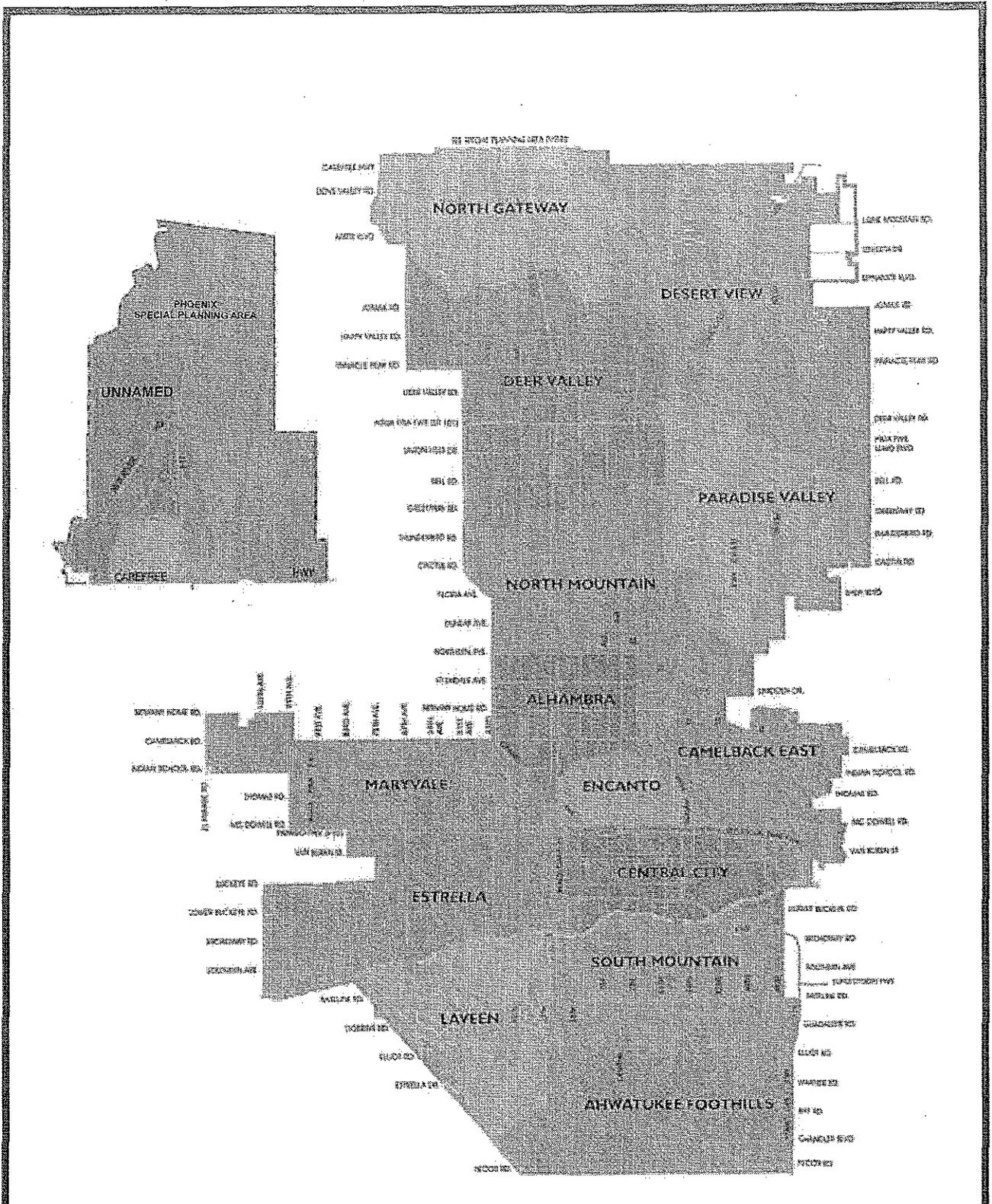


FIGURE 1
PHOENIX URBAN VILLAGES



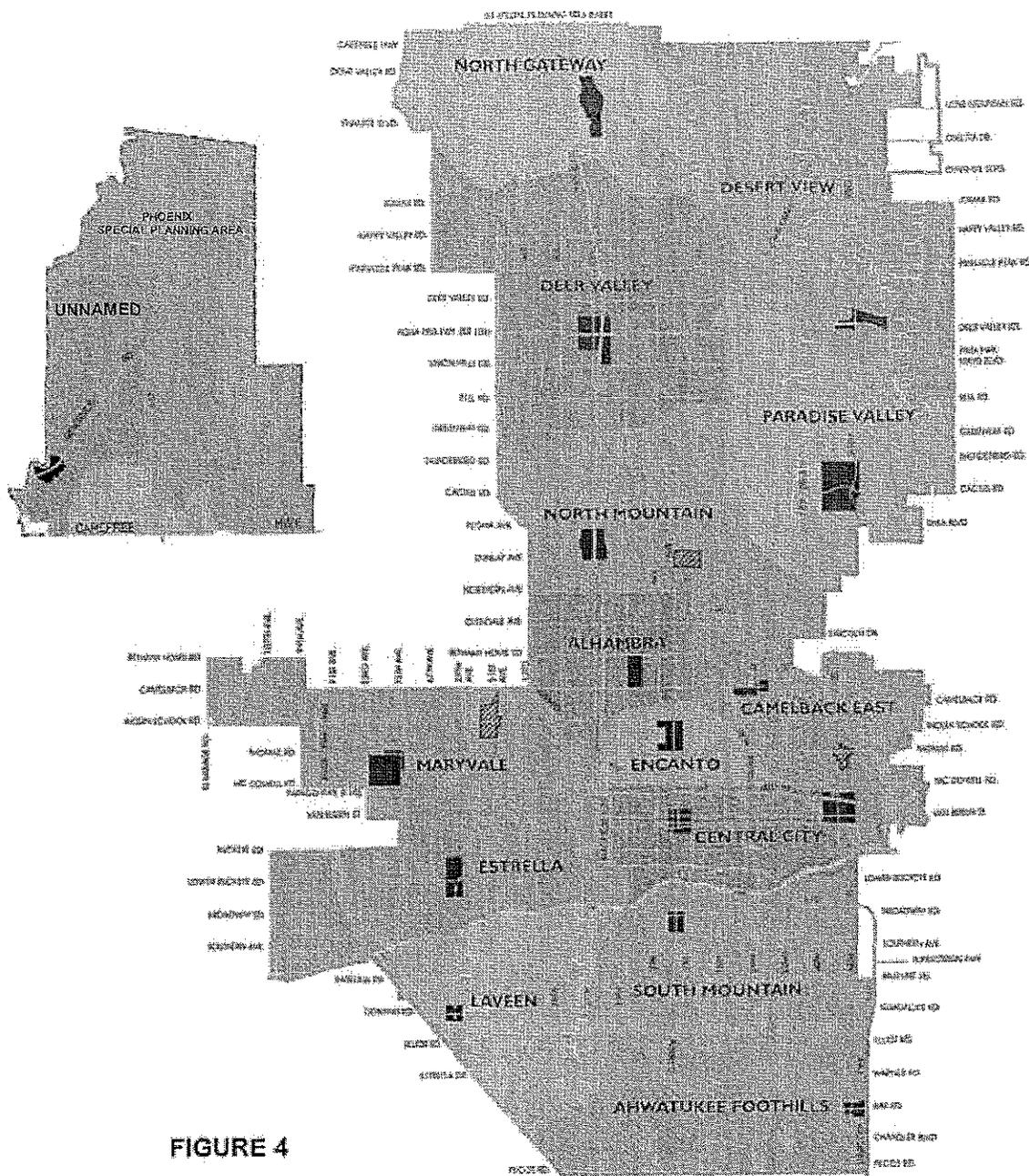


FIGURE 4
VILLAGE CORES

 CORE
 SECONDARY CORE



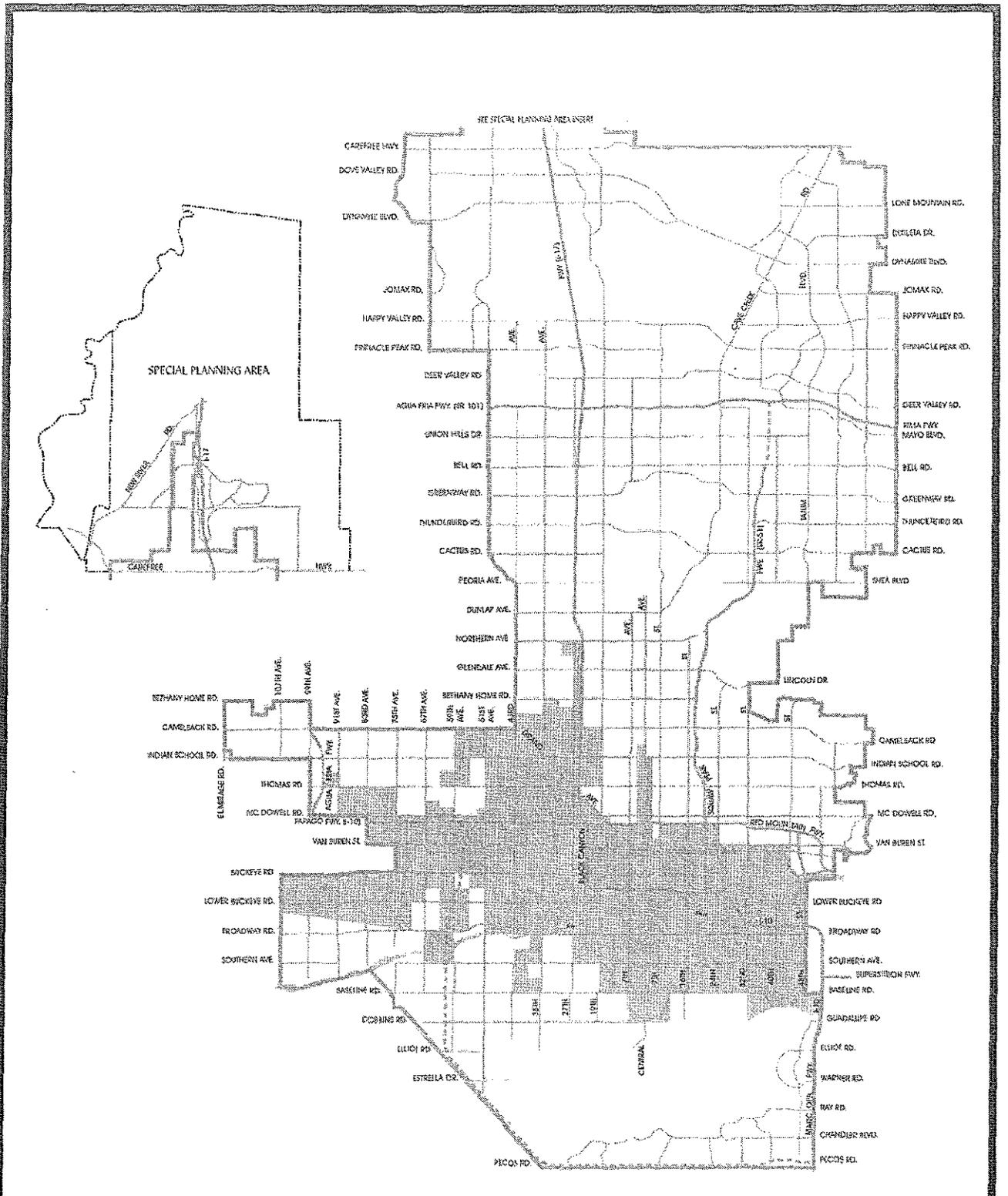


FIGURE 24
ENTERPRISE ZONE



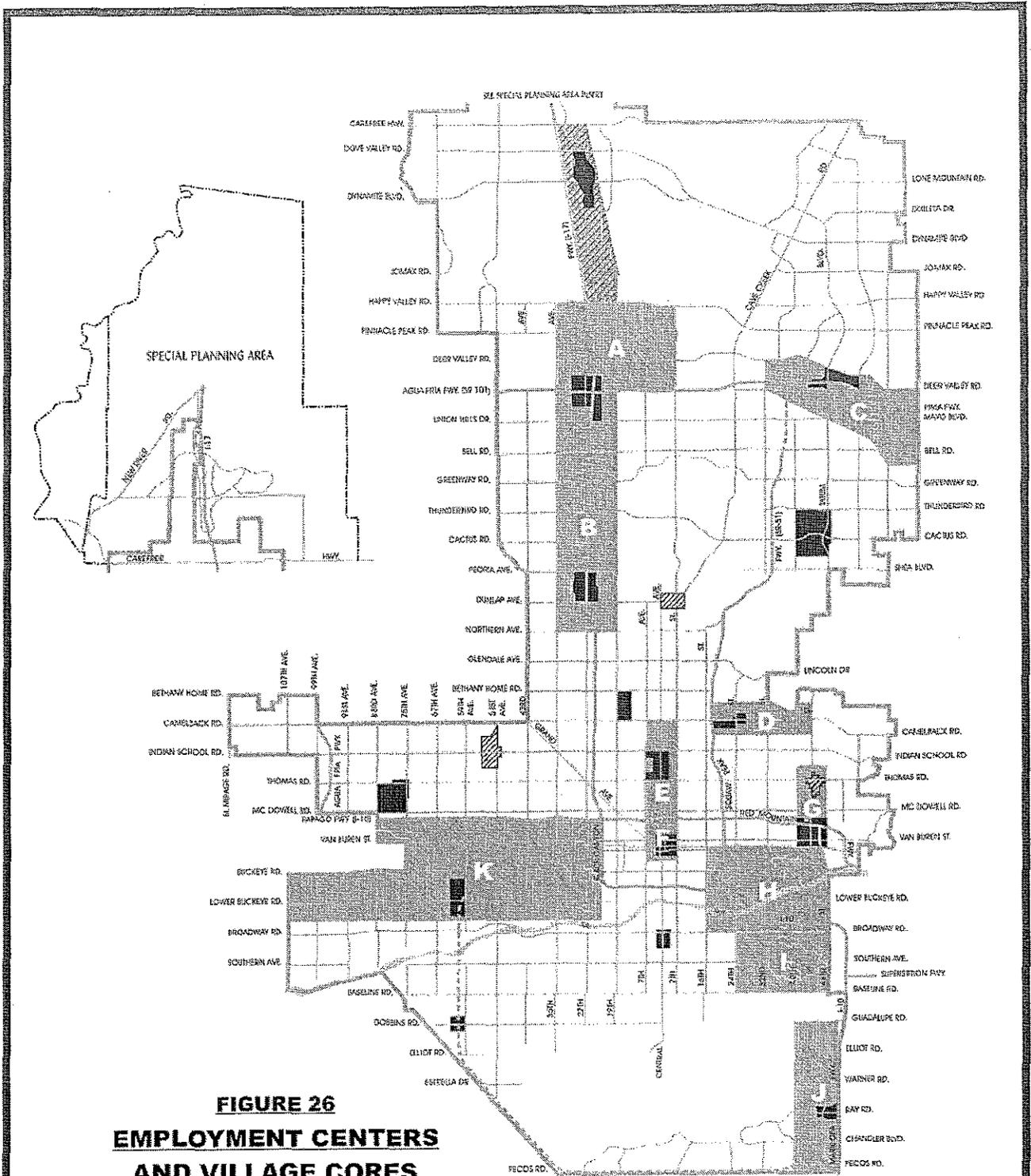


FIGURE 26
EMPLOYMENT CENTERS
AND VILLAGE CORES

- A**-Deer Valley
- B**-North I-17
- C**-Desert Ridge / Kierland
- D**-Camelback Corridor
- E**-North Central Avenue
- F**-Downtown
- G**-Gateway
- H**-Airport
- I**-South Mountain
- J**-Ahwatukee Foothills
- K**-Southwest Phoenix
- ▨ Future Employment Centers
- Village Cores
- ▤ Secondary Cores



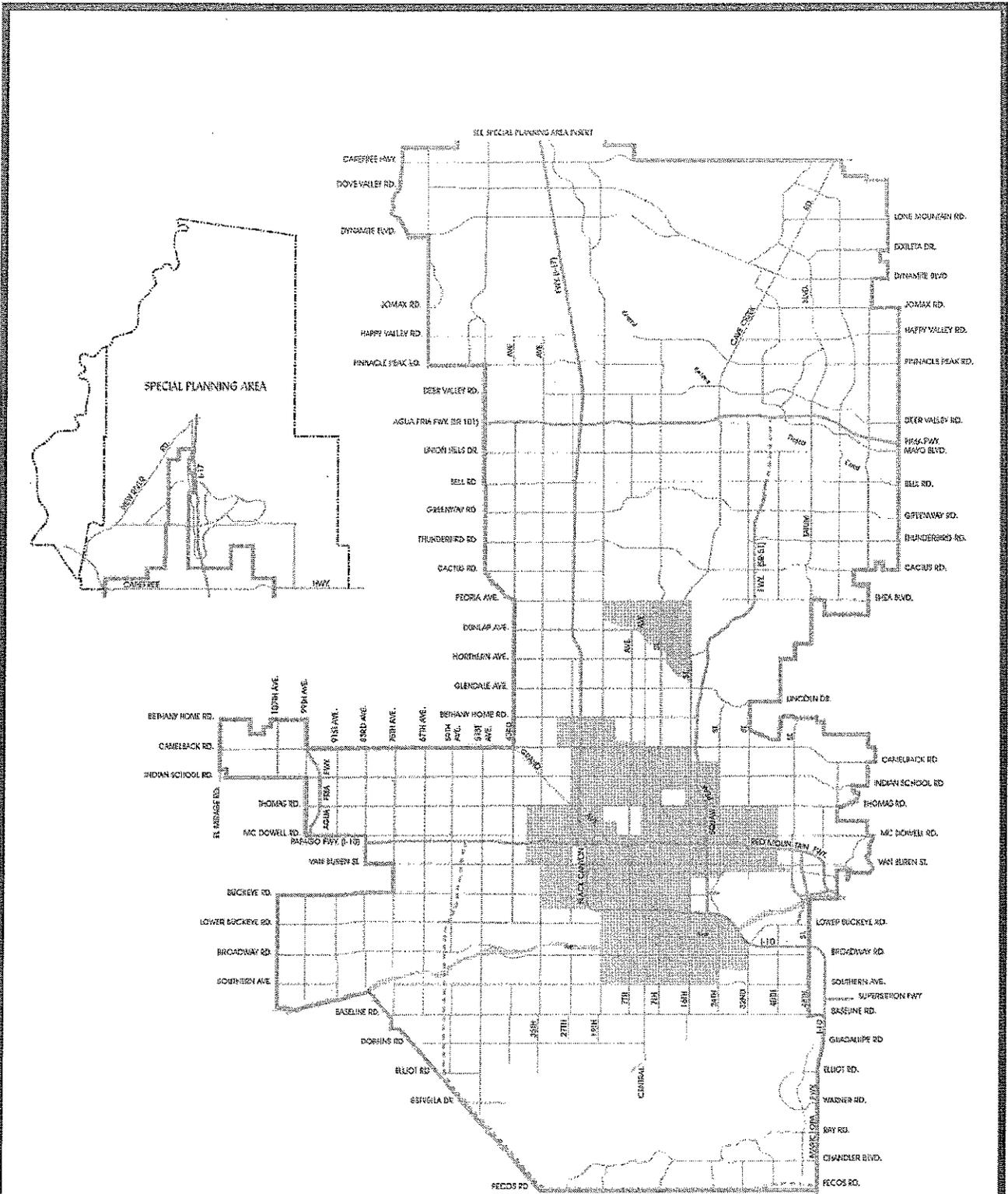


FIGURE 28
PROPOSED INFILL DEVELOPMENT
INCENTIVE DISTRICTS



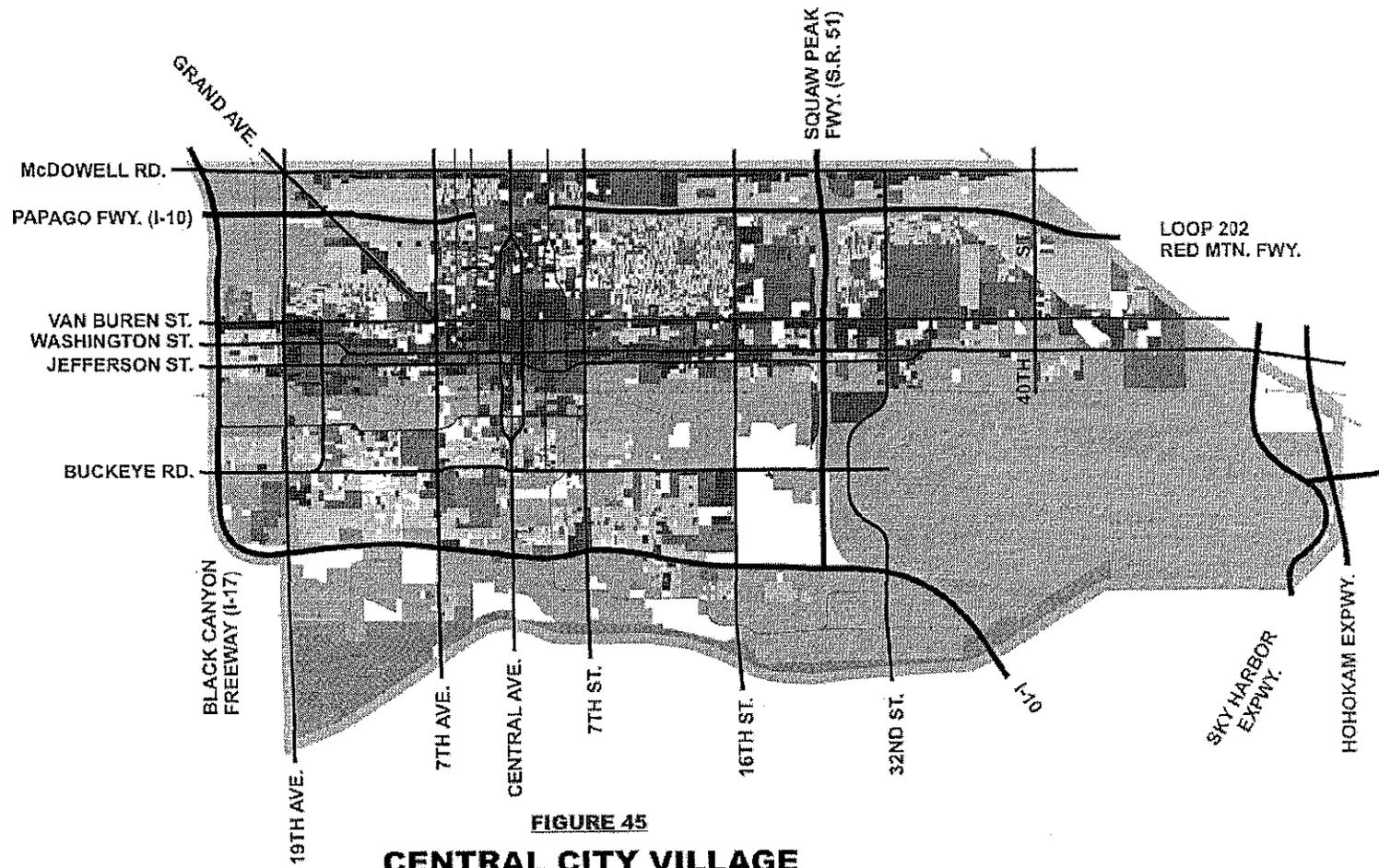


FIGURE 45
CENTRAL CITY VILLAGE
EXISTING LAND USE

- SINGLE FAMILY
- MULTI-FAMILY RESIDENTIAL
- COMMERCIAL
- PUBLIC FACILITY
- INDUSTRIAL
- OPEN SPACE
- VACANT



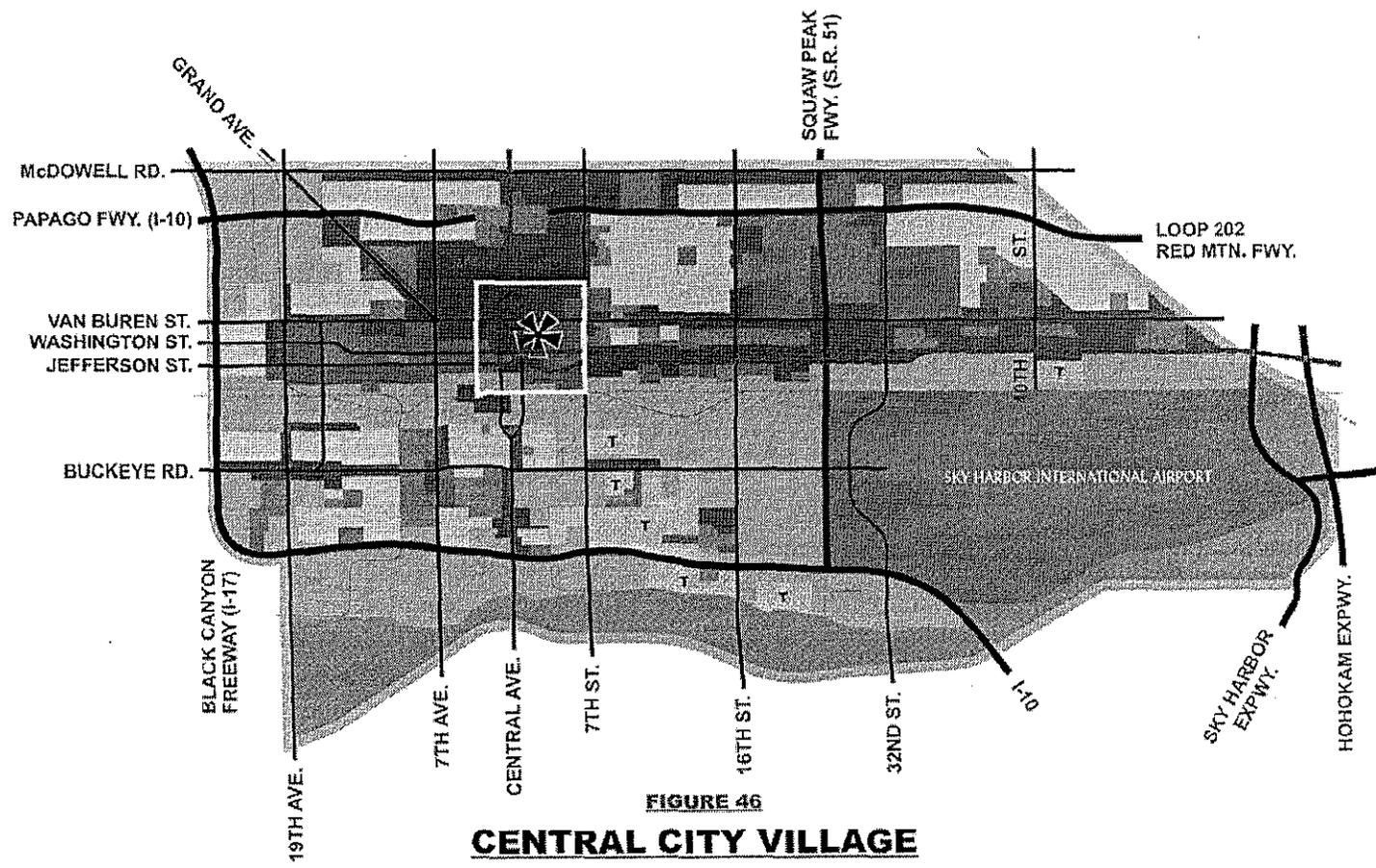


FIGURE 46

CENTRAL CITY VILLAGE GENERAL PLAN LAND USE

- | | |
|---|-----------------------------|
| 3.5 to 5 du/acre - Traditional Lot | Commercial |
| 10 to 15 du/acre - Higher density attached townhouses, condos or apartments | Commercial/Business Park |
| 15+ du/acre - Higher density attached townhouses, condos or apartments | Industrial |
| Parks/Open Space - Publicly Owned | Public/Quasi Public |
| Mixed Use (MU) (See NOTES #1) | Canal, Watercourse, Wash |
| Mixed Use Transition - Color in crosshatch is the color to, color between the crosshatch is the color from. | Existing Railroad |
| | Major and Collector Streets |
| | Primary Core |
| | Light Rail |



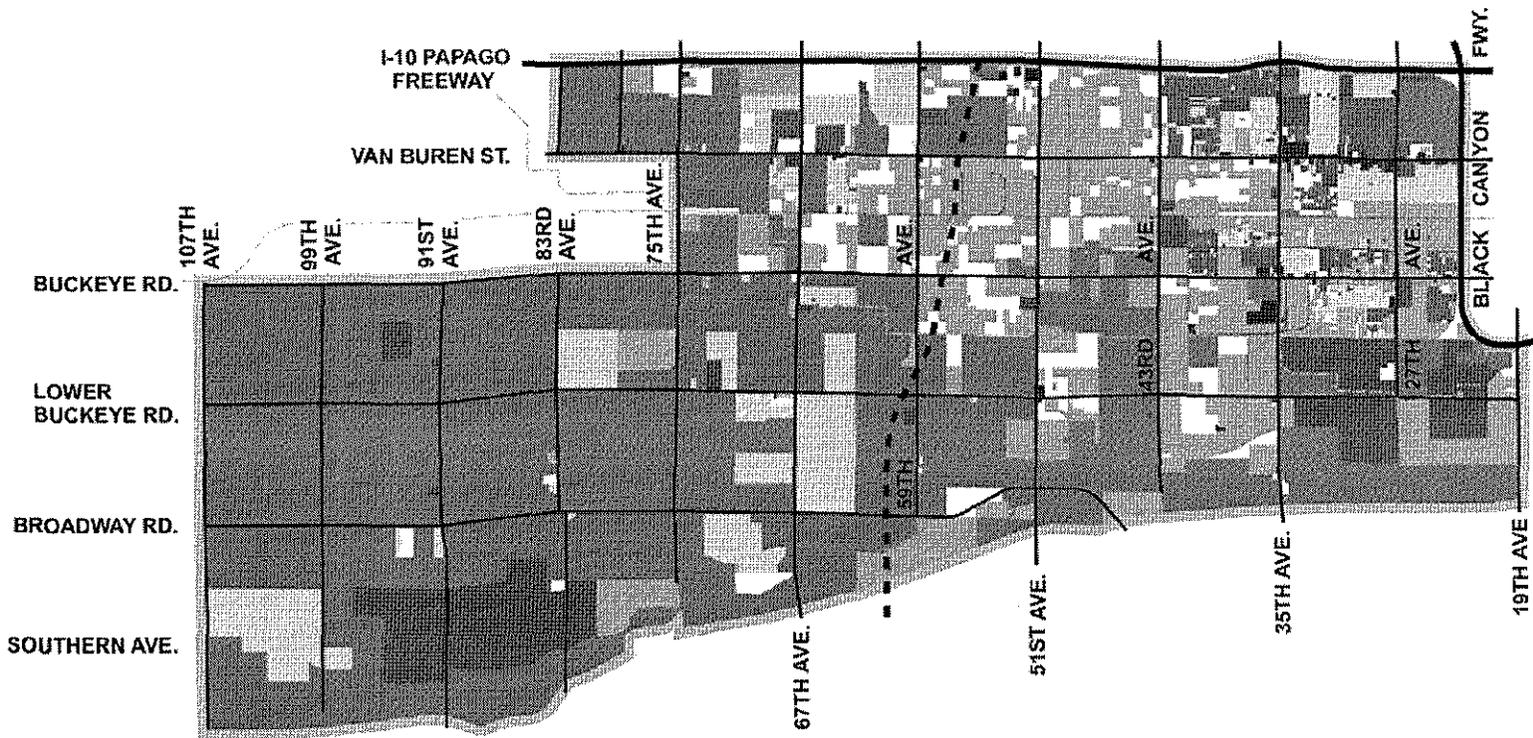


FIGURE 53
ESTRELLA VILLAGE
EXISTING LAND USE

-  SINGLE FAMILY
-  MULTI-FAMILY RESIDENTIAL
-  COMMERCIAL
-  PUBLIC FACILITY
-  INDUSTRIAL
-  OPEN SPACE
-  VACANT



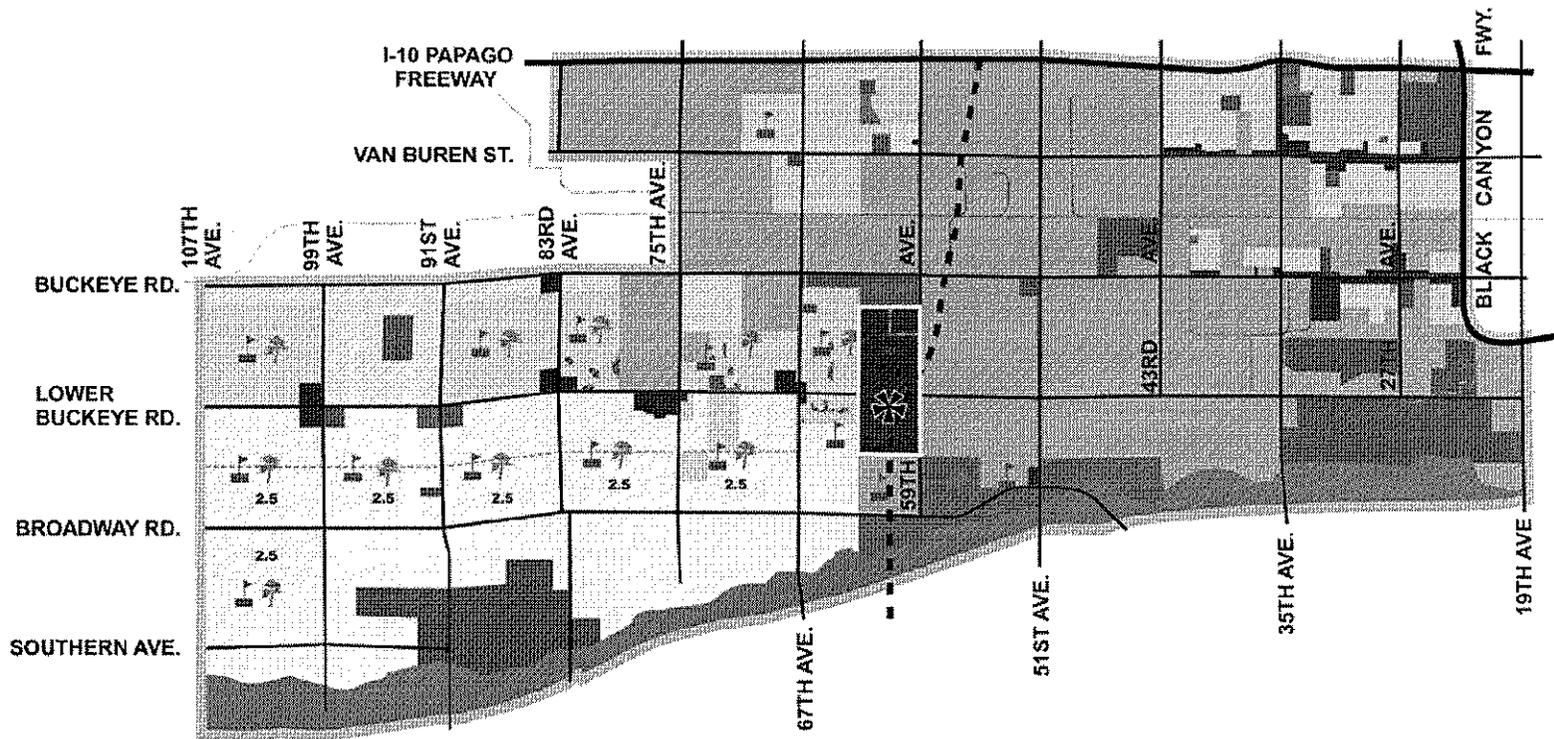


FIGURE 54
ESTRELLA VILLAGE
GENERAL PLAN LAND USE

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> □ 1 to 2 du / acre - Large Lot □ 2 to 3.5 du / acre - Traditional Lot □ 3.5 to 5 du / acre - Traditional Lot □ 5 to 10 du / acre - Traditional Lot □ 10 to 15 du / acre - Higher density attached townhouses, condos or apartments □ 15+ du / acre - Higher density attached townhouses, condos or apartments | <ul style="list-style-type: none"> ■ Parks / Open Space - Publicly Owned ■ Parks / Open Space - Privately Owned ■ Mixed Use (MU) ■ Commercial ■ Industrial ■ Commerce / Business Park ■ Public / Quasi-Public ■ Transportation ■ Canal, Watercourse, Wash | <ul style="list-style-type: none"> — Existing Railroad — Major and Collector Streets — Future Transportation ⊗ Primary Core ⊗ Proposed Park in Area ⊗ Proposed School in Area 10 Density Cap --- Density Cap Limit |
|--|--|--|





FIGURE 91
ESTRELLA VILLAGE CHARACTER MAP

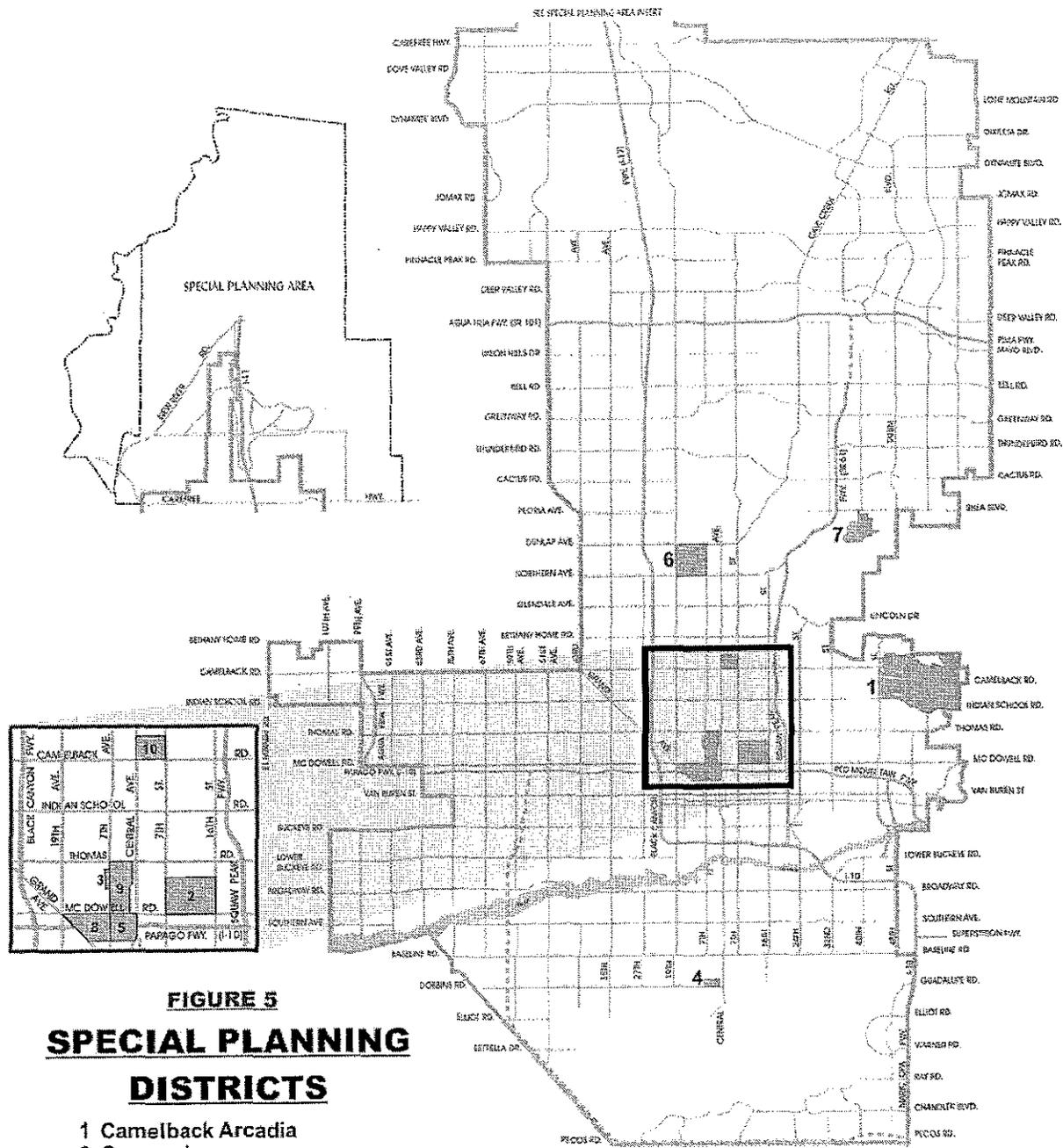


FIGURE 5
SPECIAL PLANNING
DISTRICTS

- 1 Camelback Arcadia
- 2 Coronado
- 3 Encanto Vista
- 4 Mountain Park
- 5 Roosevelt
- 6 Royal Palm
- 7 Sahuaro
- 8 Story
- 9 Willo
- 10 Windsor Square



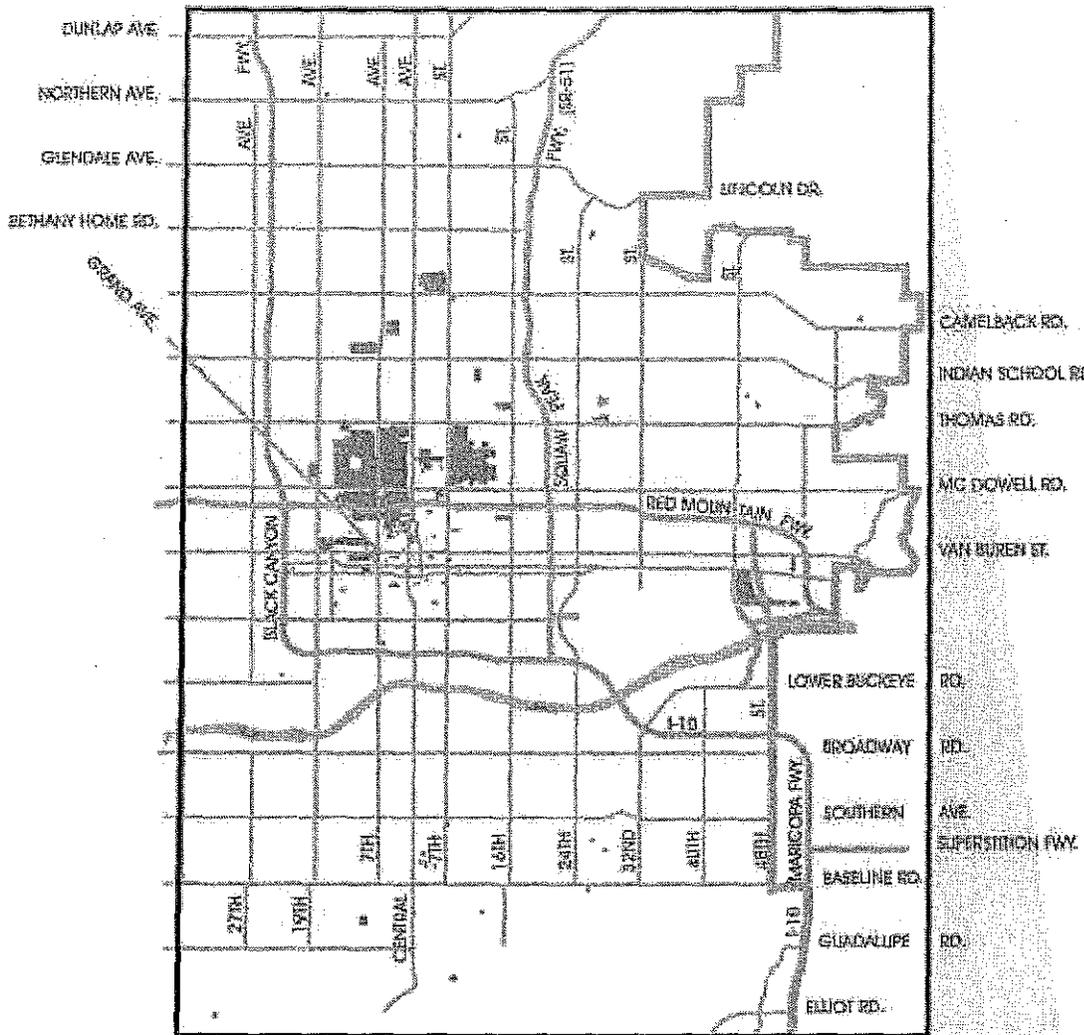
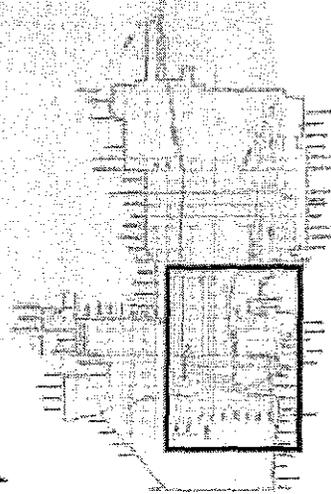


FIGURE 3
HISTORIC
PRESERVATION
DISTRICTS

 HISTORIC DISTRICTS AND DESIGNATIONS



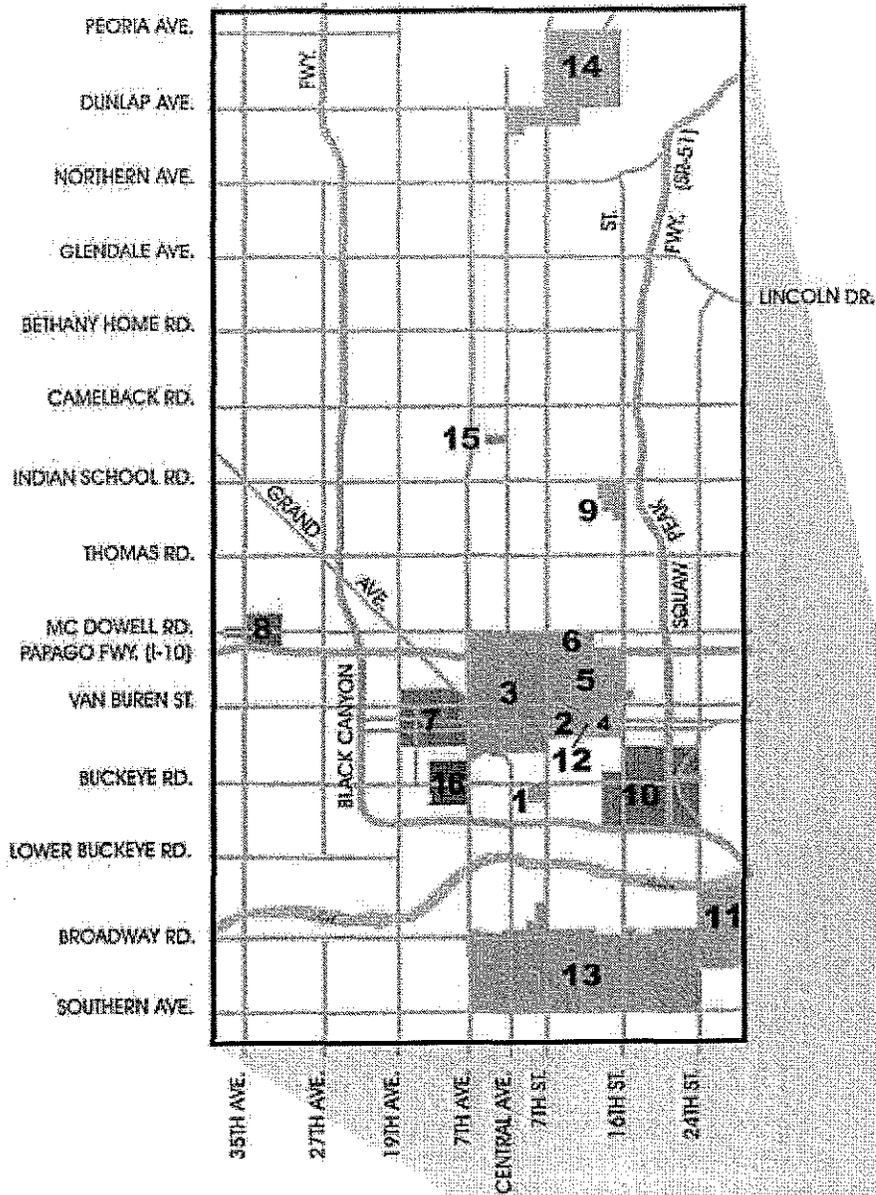
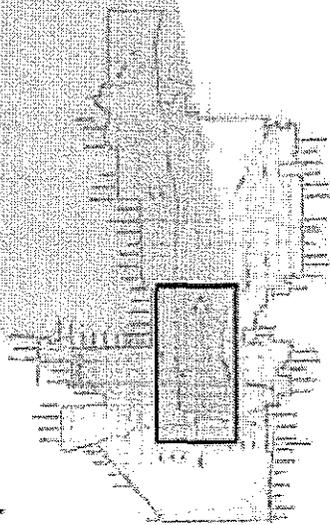


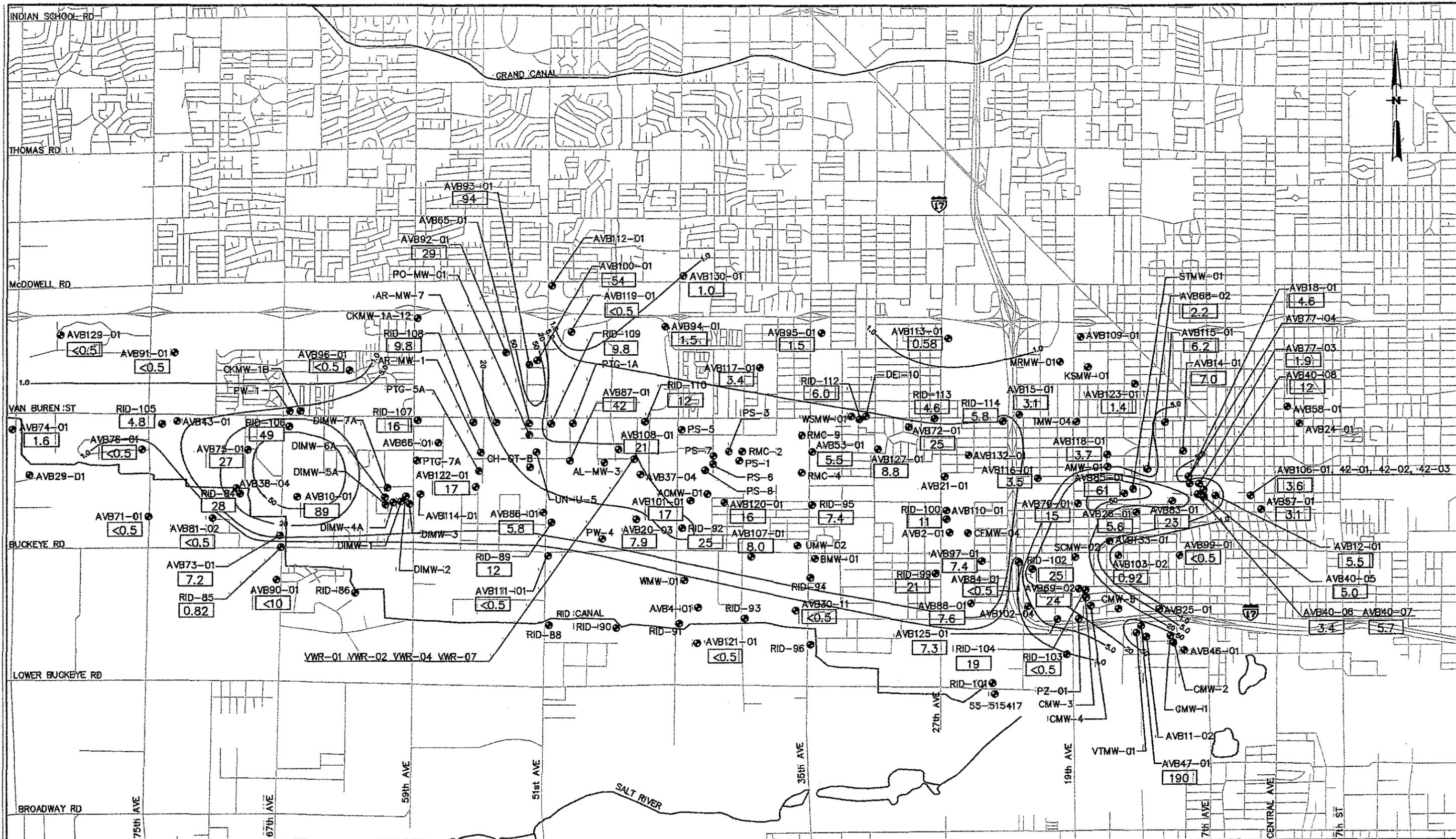
FIGURE 10

REDEVELOPMENT AREAS

- | | |
|-----------------------|----------------------------|
| 1 - 7TH ST. / BUCKEYE | 9 - LONGVIEW |
| 2 - B. T. WASHINGTON | 10 - SKY HARBOR |
| 3 - DOWNTOWN | 11 - SOUTH PHOENIX VILLAGE |
| 4 - EASTLAKE PARK | 12 - SPECIAL |
| 5 - GARFIELD | 13 - TARGET AREA B |
| 6 - GOOD SAMARITAN | 14 - TARGET AREA F |
| 7 - GOVERNMENT MALL | 15 - WEST MINNEZONA |
| 8 - ISAAC | 16 - HOPE VI |



APPENDIX C
CONTAMINANT CONCENTRATION CONTOUR MAPS



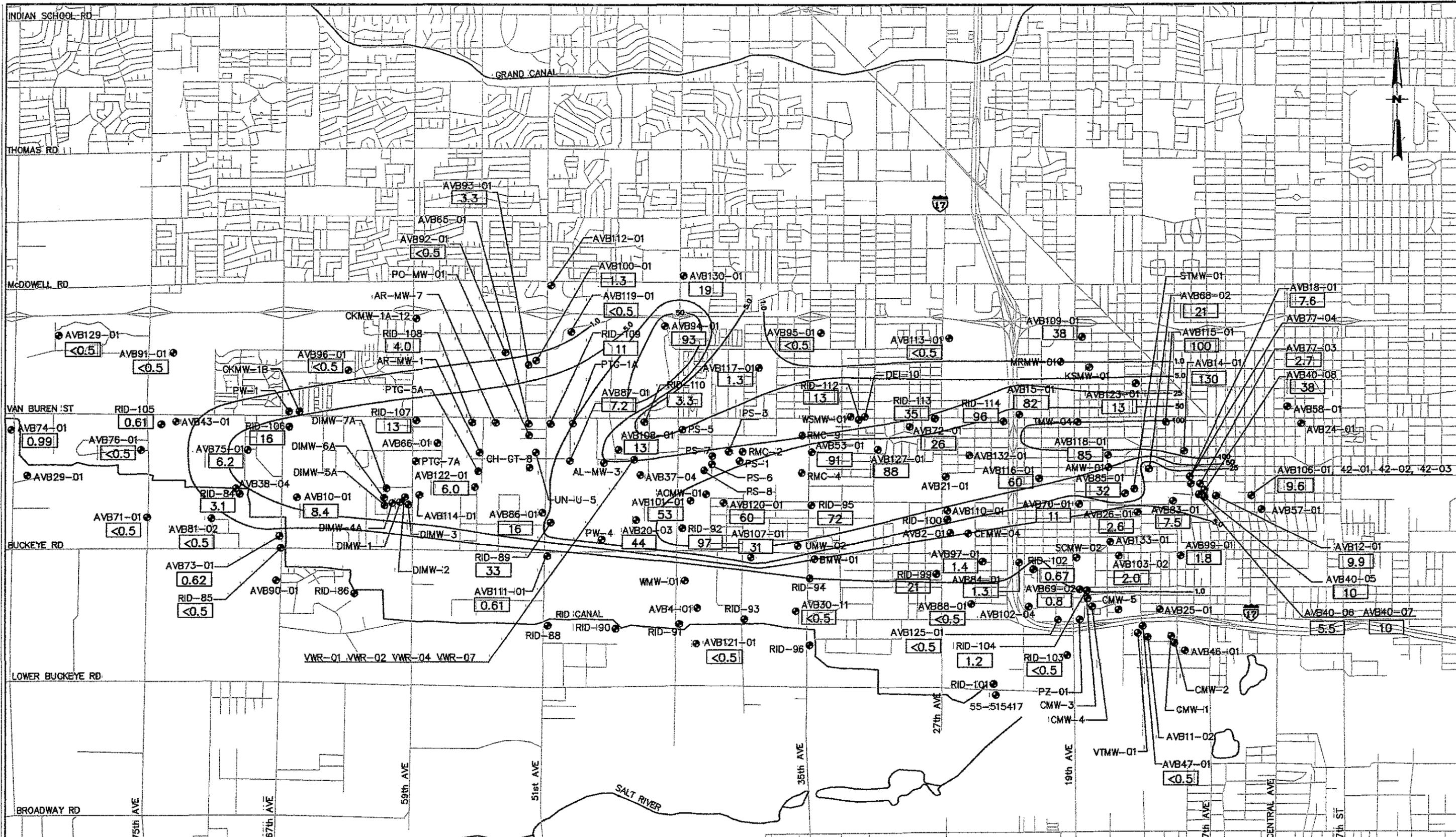
LEGEND	
	- APPROXIMATE WELL LOCATION
AVB76-01	- WELL IDENTIFICATION NUMBER
	- PCE CONCENTRATION (ug/l)
	- 1.0 - PCE CONCENTRATION CONTOUR (ug/l)

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/20/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		



FIGURE 4-11
UAU 1 WELL PCE CONCENTRATIONS-MARCH/APRIL 2005
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA



LEGEND

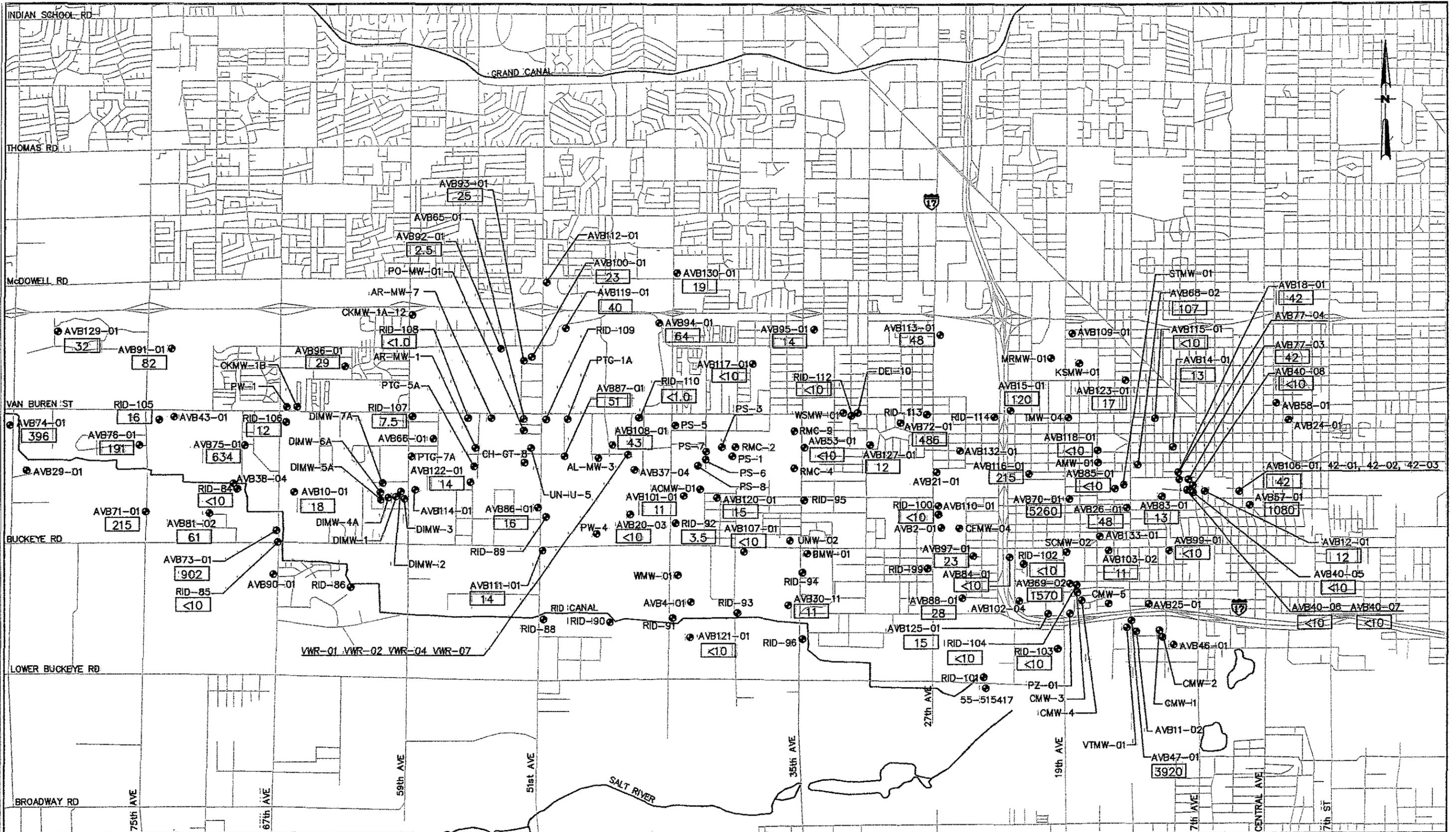
- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- <0.5 - TCE CONCENTRATION (ug/l)
- 1.0 - TCE CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/17/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		



FIGURE 4-12
 UAU 1 WELL TCE CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQARF SITE
 PHOENIX, ARIZONA



LEGEND

- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- 1080 - TOTAL CR CONCENTRATION (ug/l)
- 1.0 - TOTAL CR CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/22/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	AJG		
APPROVED BY:	AJG		

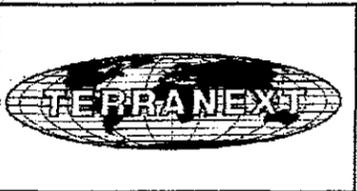
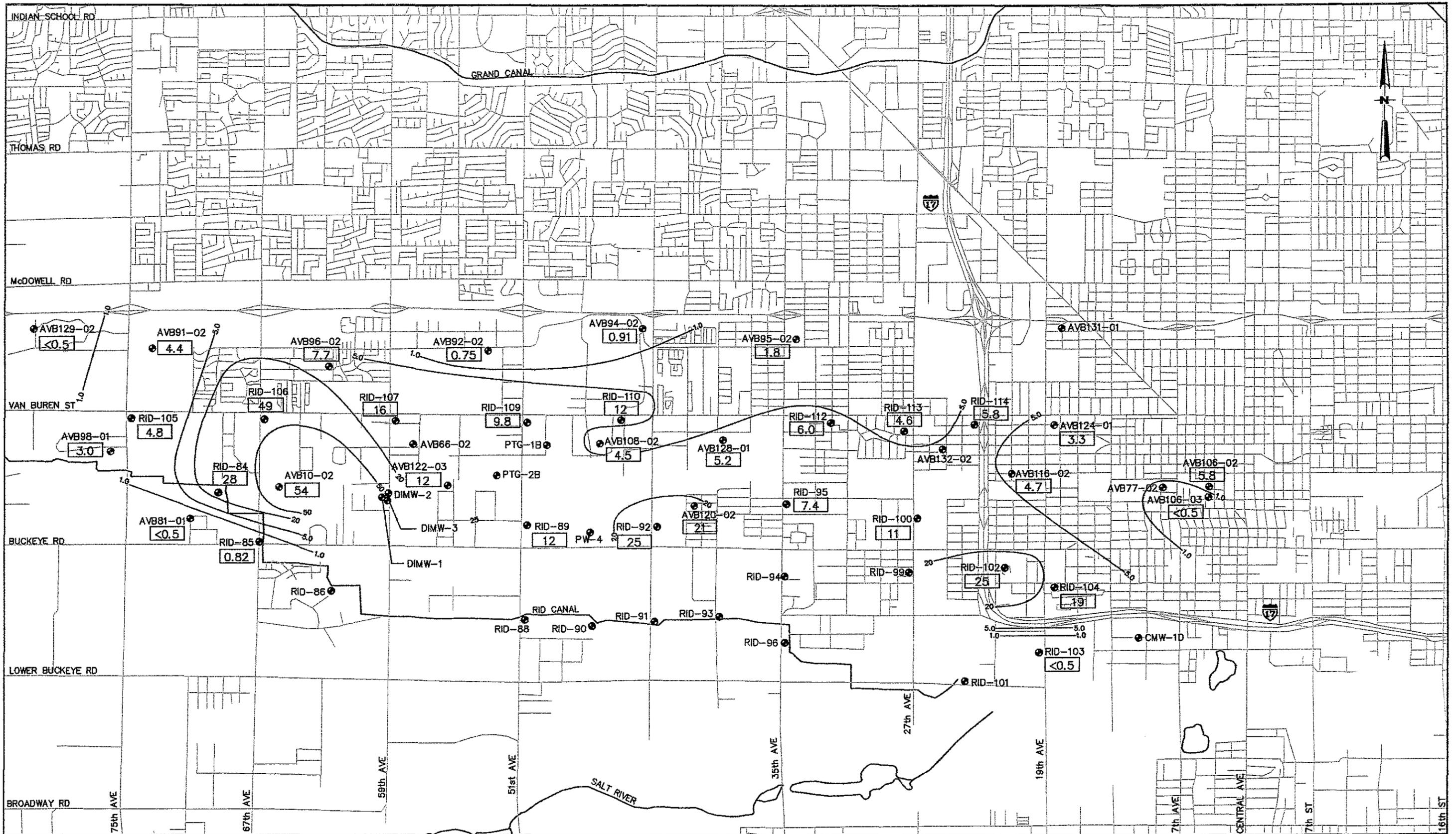


FIGURE 4-14
 UAU 1 WELL TOTAL CR CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQRF SITE
 PHOENIX, ARIZONA



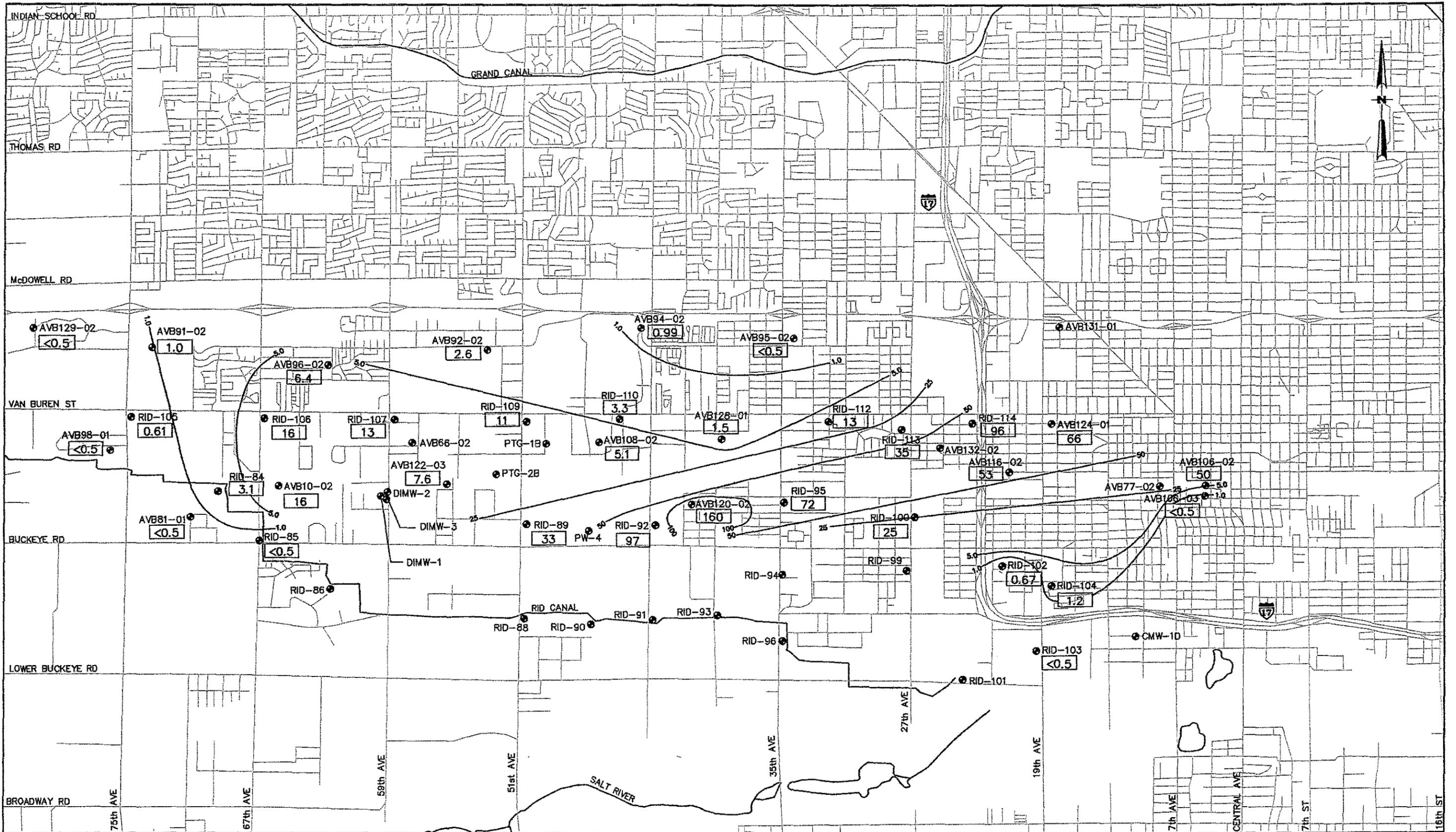
LEGEND	
	- APPROXIMATE WELL LOCATION
AVB76-01	- WELL IDENTIFICATION NUMBER
<0.5	- PCE CONCENTRATION (ug/l)
1.0	- PCE CONCENTRATION CONTOUR (ug/l)

NOTE
SOURCE DATA FOR BASEMAP FROM
THE ARIZONA DEPARTMENT OF
TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/20/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-22
UAU 2 WELL PCE CONCENTRATIONS-MARCH/APRIL 2005
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA



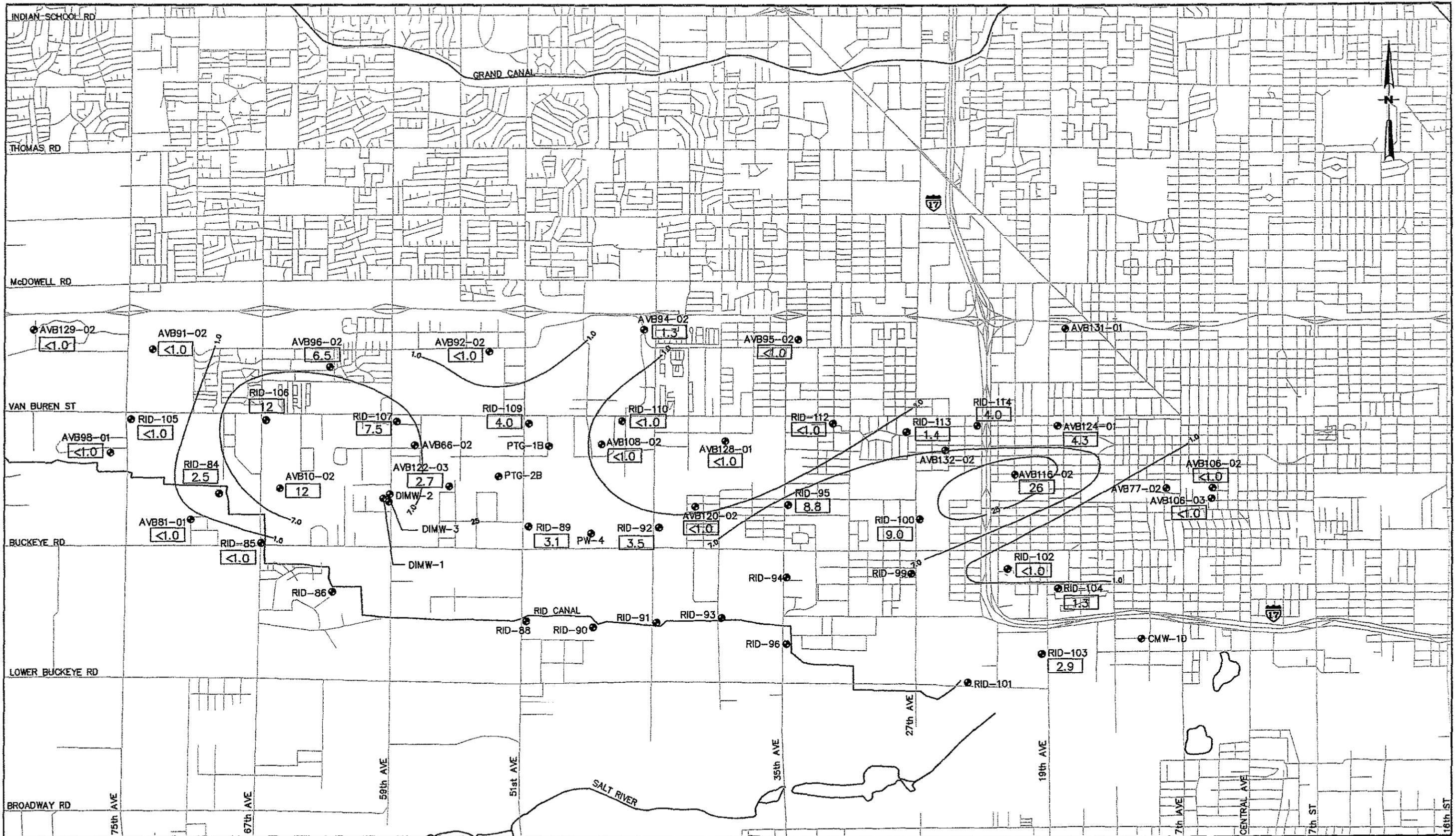
LEGEND	
	- APPROXIMATE WELL LOCATION
AVB76-01	- WELL IDENTIFICATION NUMBER
<0.5	- TCE CONCENTRATION (ug/l)
1.0	- TCE CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM
 THE ARIZONA DEPARTMENT OF
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/20/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-23
 UAU 2 WELL TCE CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQARF SITE
 PHOENIX, ARIZONA



LEGEND

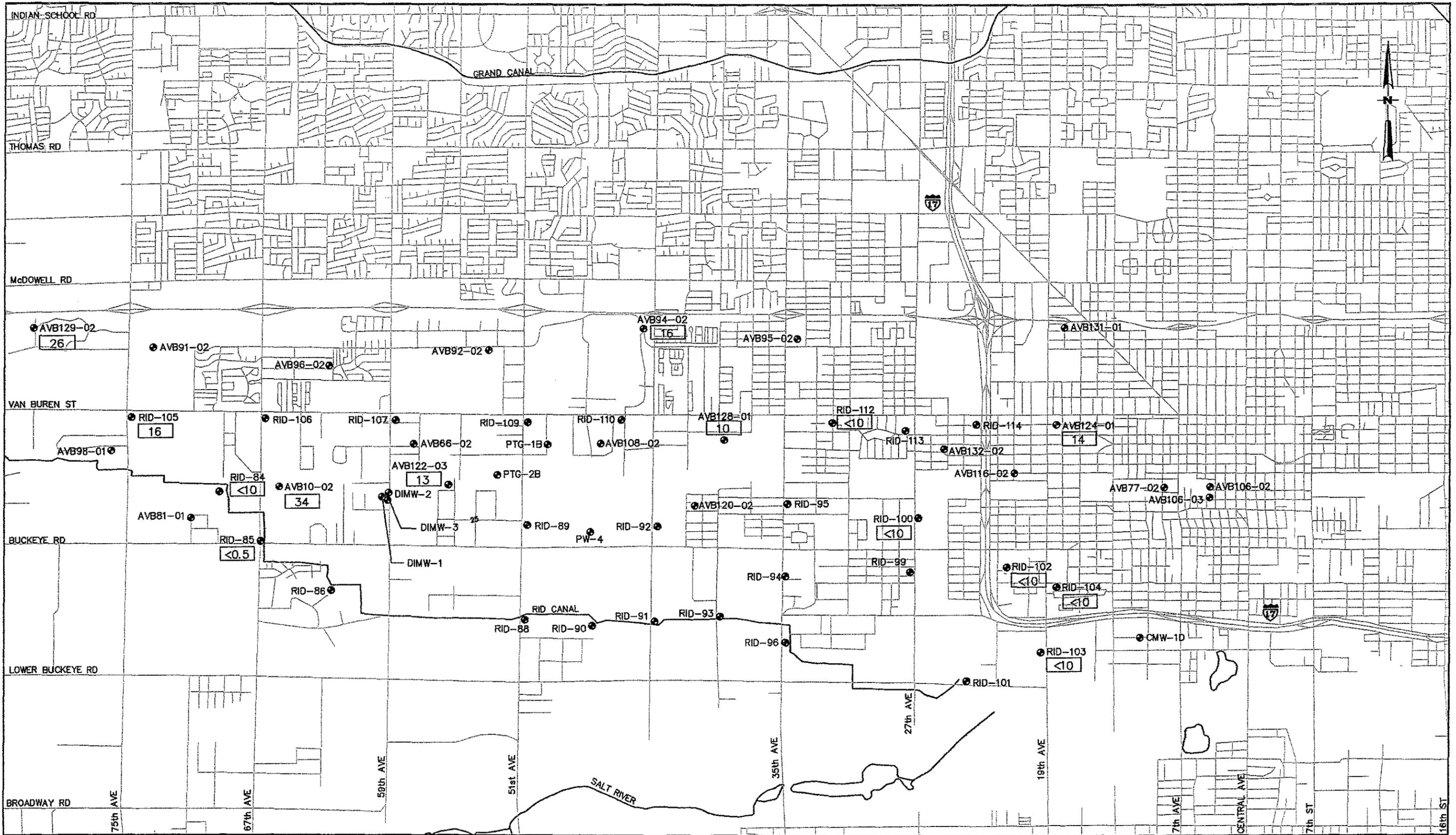
- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- ☐ <1.0 - 1,1-DCE CONCENTRATION (ug/l)
- 1.0 - 1,1-DCE CONCENTRATION CONTOUR (ug/l)

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/22/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-24
UAU 2 WELL 1,1-DCE CONCENTRATIONS-MARCH/APRIL 2005
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA



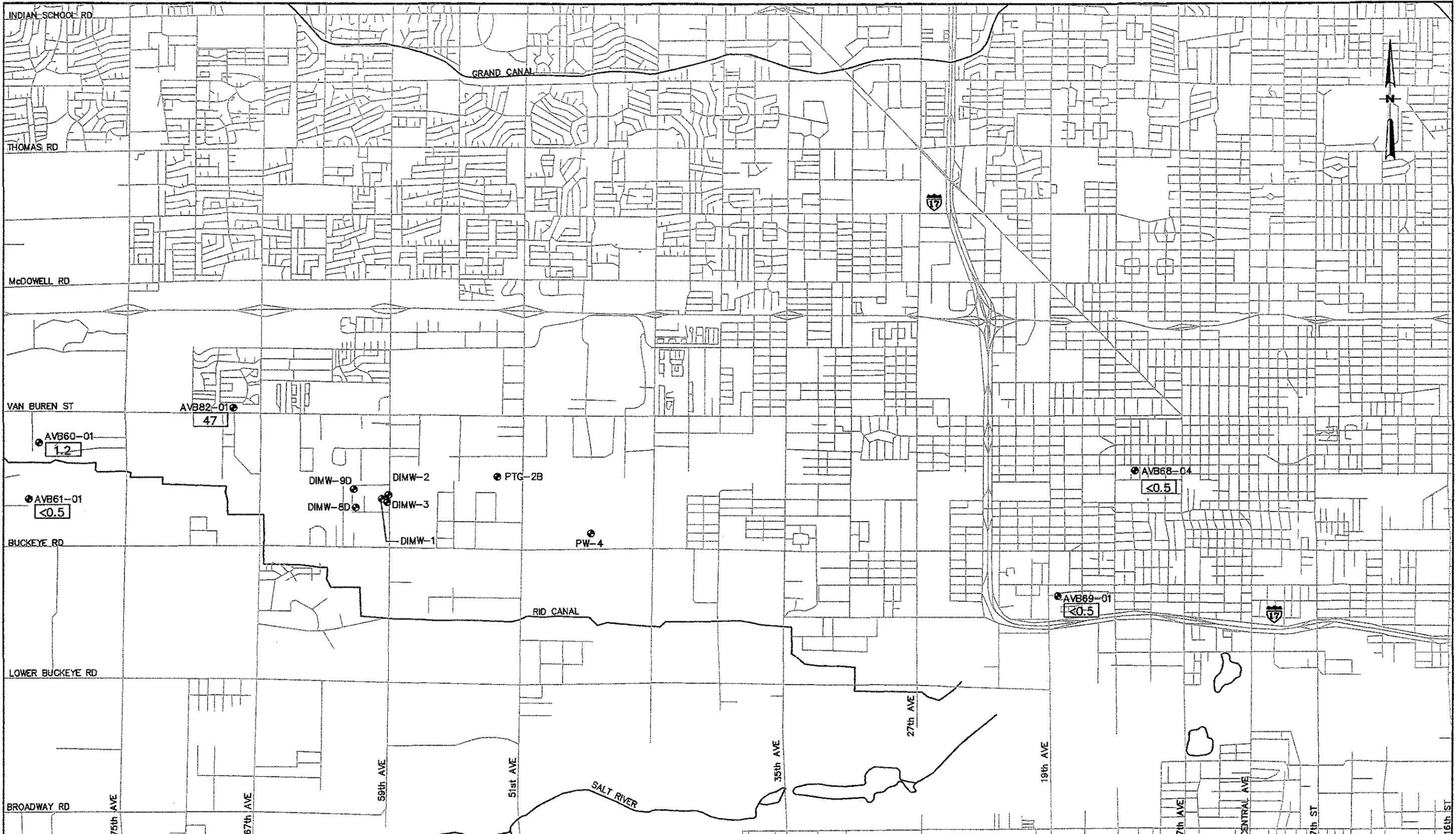
LEGEND	
	- APPROXIMATE WELL LOCATION
AVB76-01	- WELL IDENTIFICATION NUMBER
<0.5	- TOTAL CR CONCENTRATION (ug/l)
1.0	- TOTAL CR CONCENTRATION CONTOUR (ug/l)

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/22/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-25
UAU 2 WELL TOTAL CR CONCENTRATIONS-MARCH/APRIL 2005
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA



LEGEND

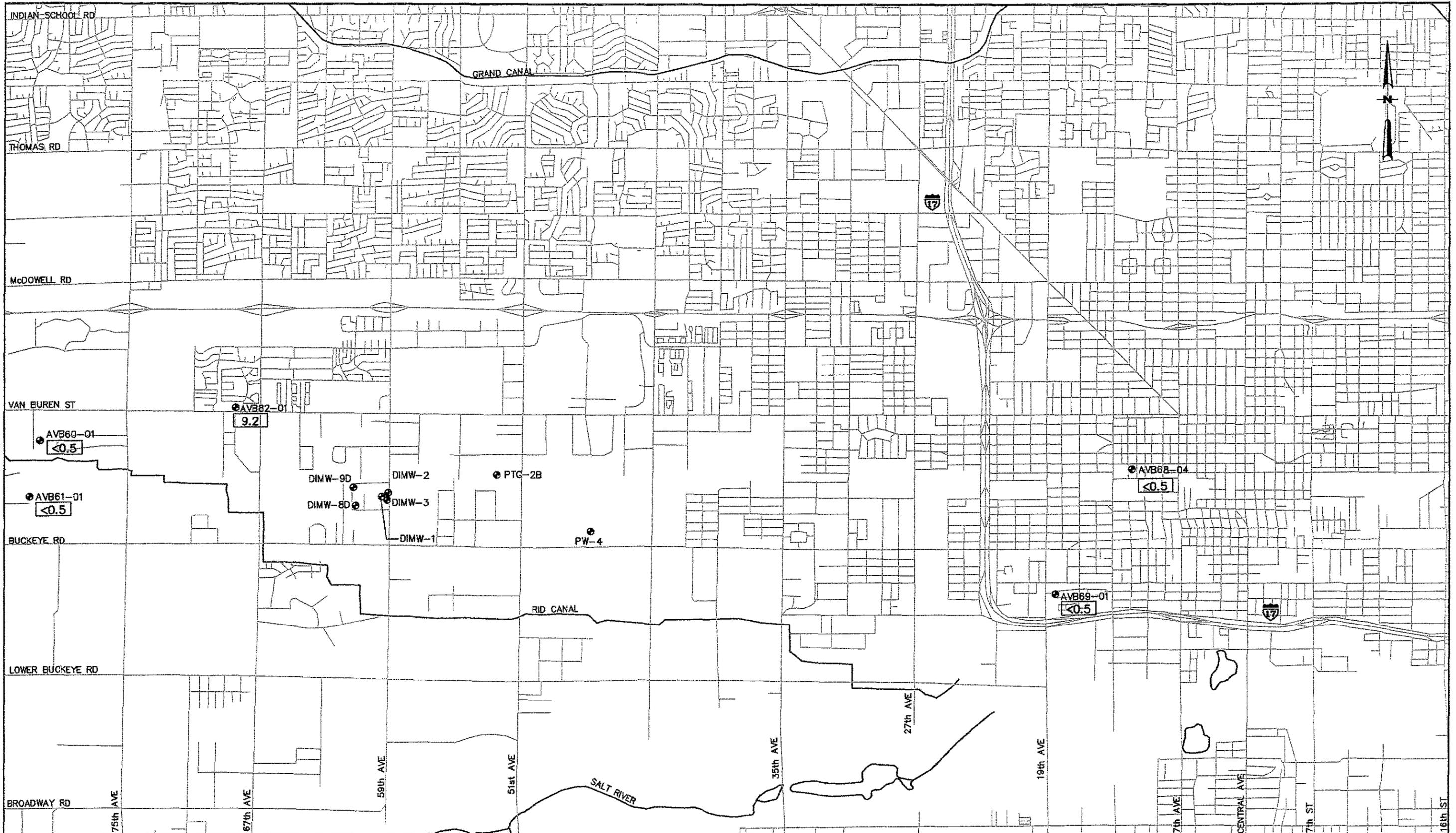
- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- <0.5 - PCE CONCENTRATION (ug/l)
- 1.0 - PCE CONCENTRATION CONTOUR (ug/l)

NOTE
SOURCE DATA FOR BASEMAP FROM THE ARIZONA DEPARTMENT OF TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/17/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-33
MAU WELL PCE CONCENTRATIONS-MARCH/APRIL 2005
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA



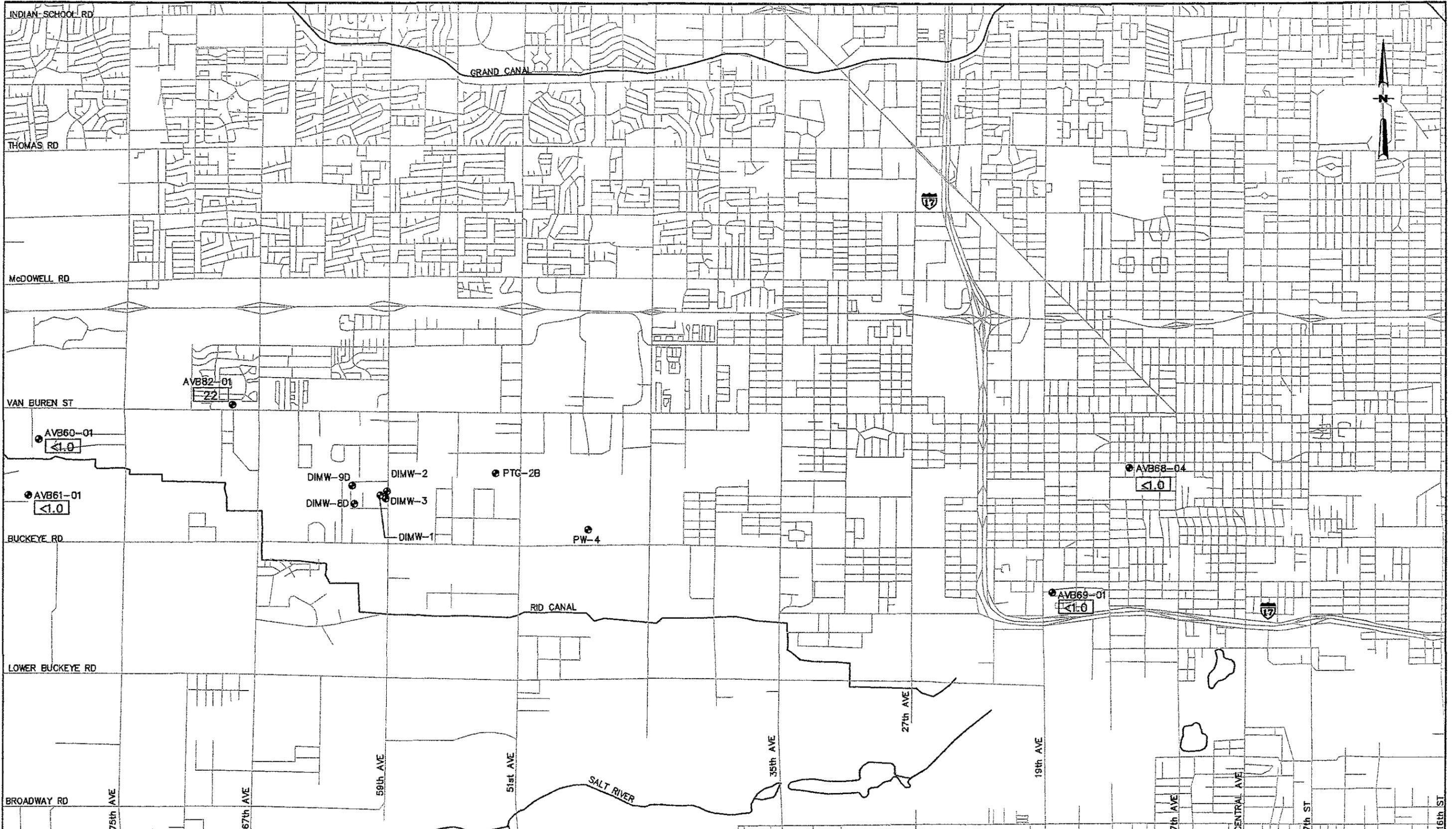
LEGEND	
●	- APPROXIMATE WELL LOCATION
AVB76-01	- WELL IDENTIFICATION NUMBER
<0.5	- TCE CONCENTRATION (ug/l)
— 1.0	- TCE CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM
 THE ARIZONA DEPARTMENT OF
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/20/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-34
 MAU WELL TCE CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQARF SITE
 PHOENIX, ARIZONA



LEGEND

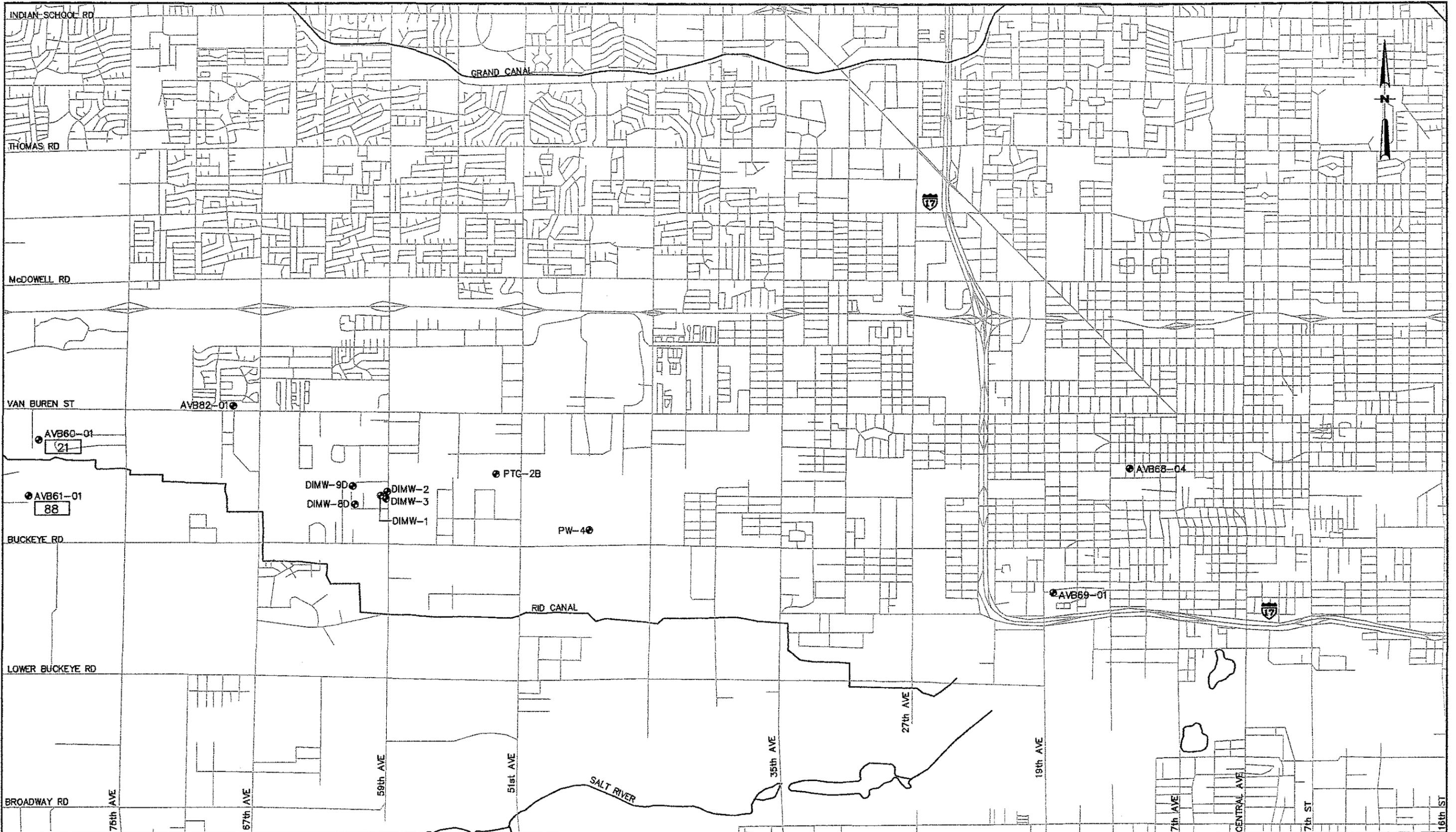
- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- ≤ 0.5 - 1,1-DCE CONCENTRATION (ug/l)
- 1.0 - 1,1-DCE CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM
 THE ARIZONA DEPARTMENT OF
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/20/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-35
 MAU WELL 1,1-DCE CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQARF SITE
 PHOENIX, ARIZONA



LEGEND

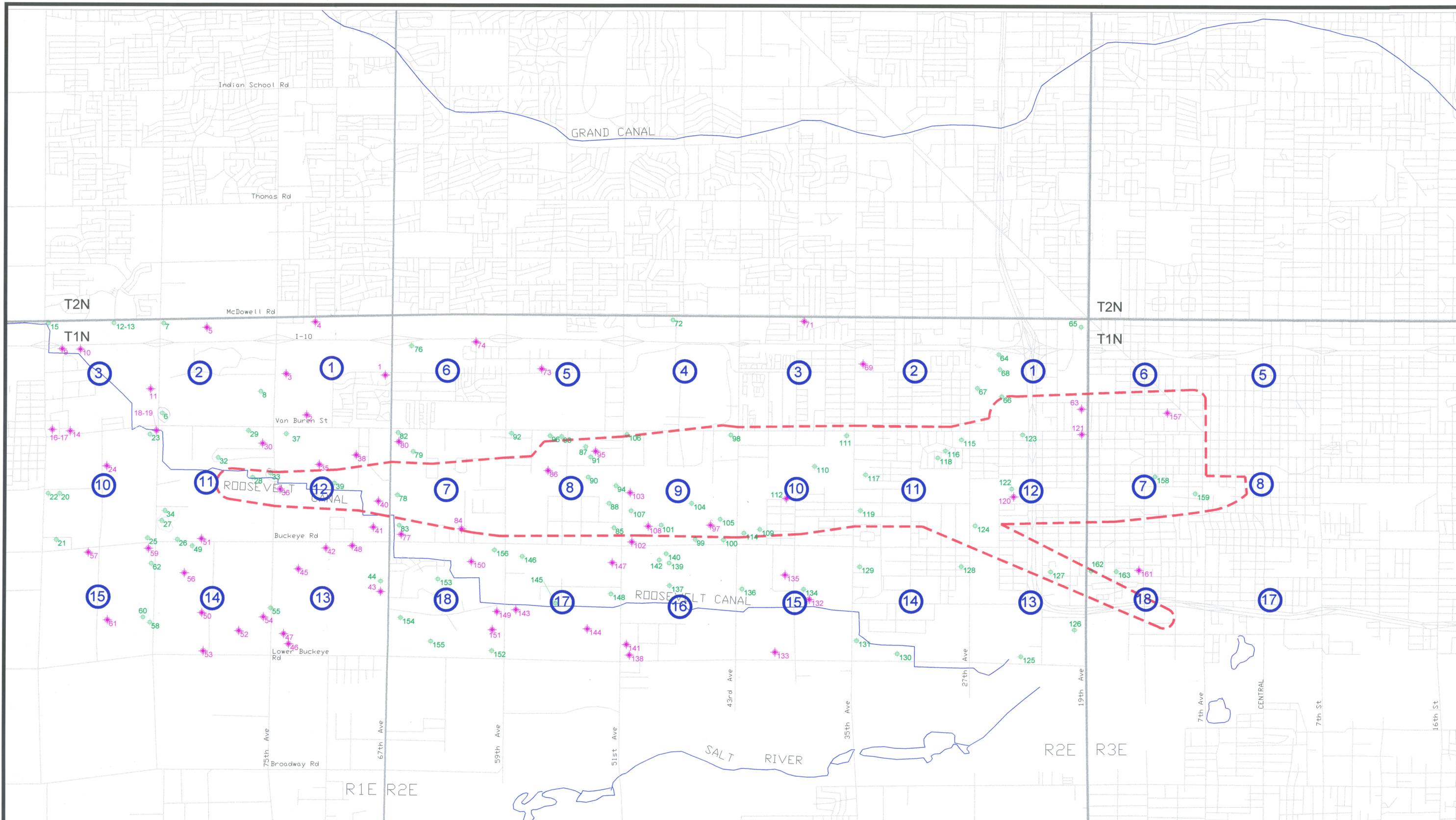
- - APPROXIMATE WELL LOCATION
- AVB76-01 - WELL IDENTIFICATION NUMBER
- 0.5— - TOTAL CR CONCENTRATION (ug/l)
- - - 1.0 - TOTAL CR CONCENTRATION CONTOUR (ug/l)

NOTE
 SOURCE DATA FOR BASEMAP FROM
 THE ARIZONA DEPARTMENT OF
 TRANSPORTATION DIGITAL ROAD MAP.

PROJ. #:	03103154-16	DATE:	02/22/06
DRAWN BY:	JTA	SCALE:	1"=3600'
DESIGNED BY:	JTA		
APPROVED BY:	AJG		



FIGURE 4-36
 MAU WELL TOTAL CR CONCENTRATIONS-MARCH/APRIL 2005
 WEST VAN BUREN WQRF SITE
 PHOENIX, ARIZONA



LEGEND

13 SECTION NUMBER

--- SITE REGISTRY BOUNDARY

DRINKING WATER PRODUCTION WELLS

NON-DRINKING WATER PRODUCTION WELLS

PROJ. #: 03103102	DATE: 10/23/01
DRAWN BY: KFS	SCALE: AS SHOWN
DESIGNED BY: RTP	PAGE 1 of 1
APPROVED BY: RTP	



PLATE 1
PRODUCTION WELL LOCATIONS
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
WEST VAN BUREN WQARF SITE
PHOENIX, ARIZONA