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July 5, 2007

John S. Wise, P.E.
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RE: Hydrogeologic Evaluation of Lee Moore Wash Basin Management Study

Dear John,

Enclosed please find the baseline hydrogeologic evaluation of the potential for groundwater recharge in the Lee Moore Watershed Management Study. This document has been revised per comments from Tucson Water.

If you have any questions, please give us a call.

Sincerely,

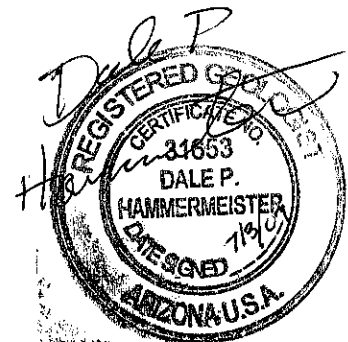
A handwritten signature in black ink, appearing to read "Mike Milczarek". The signature is fluid and cursive, with the first name "Mike" and last name "Milczarek" clearly distinguishable.

Mike Milczarek
Project Manager

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Table of Contents

List of Tables	ii
List of Figures	ii
List of Appendices	iii
EXECUTIVE SUMMARY	iv
1.0 INTRODUCTION	1
1.1 Description of Study Area	1
1.2 Hydrogeologic Assessment Methods	1
1.2.1 Soils and Geomorphology	1
1.2.2 Subsurface Hydrogeology	2
1.2.3 Riparian Areas	3
2.0 SOILS AND GEOMORPHOLOGY	3
3.0 SUBSURFACE HYDROGEOLOGY	4
3.1 Surficial Deposits	5
3.2 Fort Lowell Formation/Upper Tinaja Beds	6
3.3 Groundwater	7
4.0 RIPARIAN AREAS	9
5.0 SUMMARY	10
6.0 REFERENCES	11

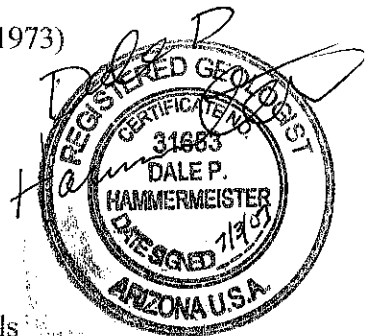


List of Tables

- Table 1. Permeability of Soil Associations in the Study Area
- Table 2. Cenozoic Stratigraphy of Exxon Well (32)-1 for Fort Lowell Formation through Middle Tinaja Beds, Anderson (1987)
- Table 3. Revised stratigraphy for the Exxon State (32)-1 Well, Houser et al. (2004)
- Table 4. GWSI Non-Exempt Status Wells: Change in Groundwater Level from 1995-6 to 2005-6

List of Figures

- Figure 1. Property Ownership and Water Service Provider Areas
- Figure 2. Soil Associations and Soil Survey Boundaries
- Figure 3. Soil Association Permeability
- Figure 4. Soil Series Percent Clay
- Figure 5. Depth to Bedrock
- Figure 6. Locations of Well Cross- Section Transects
- Figure 7. Well-Log-Based Hydrostratigraphic Cross-Section "H" from Davidson (1973)
- Figure 8. Well-Log-Based Hydrostratigraphic Cross-Section A-A'
- Figure 9. Well-Log-Based Hydrostratigraphic Cross-Section B-B'
- Figure 10. Well-Log-Based Hydrostratigraphic Cross-Section C-C'
- Figure 11. Depth to Water 1995-6 from ADWR GWSI Data, 10-ft Contour Intervals
- Figure 12. Depth to Water 2005-6 from ADWR GWSI Data, 10-ft Contour Intervals
- Figure 13. Groundwater Elevation 1995-6 from ADWR GWSI Data, 25-ft Contour Intervals
- Figure 14. Groundwater Elevation 2005-6 from ADWR GWSI Data, 25-ft Contour Intervals
- Figure 15. Change in Groundwater Elevation in GWSI Wells between 1995-6 and 2005-6
- Figure 16. Riparian Areas and Depth to Water 2005-6, and Potentially High-Volume Water Production Wells

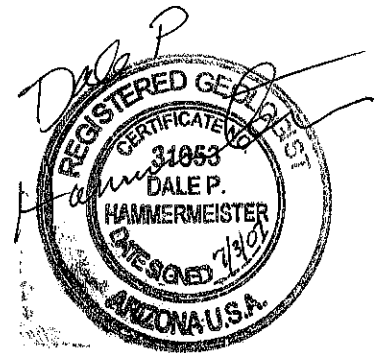


List of Appendices

Appendix 1. ADWR-Registered Water Production Wells in the Study Area

Appendix 2a. GWSI Wells with 2005-6 Water Levels

Appendix 2b. GWSI Wells with 1995-6 Water Levels



EXECUTIVE SUMMARY

A baseline hydrogeologic data compilation was performed for the Lee Moore Watershed Study Area with respect to the general potential for future planned stormwater detention basins to contribute groundwater recharge to the local aquifer. The study consisted of the following tasks:

- Summarize geology from previous studies.
- Evaluate surficial and regional geology and determine where geologic conditions are favorable for groundwater recharge from stormwater detention basins.
- Estimate existing groundwater elevations from available groundwater elevation data.
- Evaluate riparian zone habitat locations in relation to estimated groundwater elevations and water service provider well locations.

The following observations can be made from the existing data:

- Soil series and clay content estimates indicate increasing soils permeability in the central to northern areas of the Study Area, with lower permeability in areas of bedrock exposure in the south-central area. Consequently, incidental recharge from stormwater basins may be most favorable in the central to northern part of the Study Area.
- Older stream deposits (terraces) are more compacted and cemented than younger stream channel deposits and therefore should be identified and avoided if possible. Stormwater capture/incidental recharge basins should be located on younger, typically highly permeable stream channel deposits along existing channels if possible.
- Channel bottoms in the northern portion of the Study Area may also have lower permeability clays that should be evaluated on a site specific basis.
- Well-based hydrogeologic cross-sections suggest that relatively-permeable surface alluvial sediments range from 0-100 ft in thickness above lower-permeability Fort Lowell formation sediments. Fort Lowell formation sediments may contain low permeability, fine-grained units that may need to be evaluated on a site-specific basis.
- Groundwater levels have dropped an average of 12 ft between 1995-96 and 2005-06, except for the Study Area's northwest portion, adjacent to the Pima Mine Road Recharge Project where well water levels have increased by as much as 76 ft.
- Groundwater levels below mapped riparian areas are typically greater than 60 ft below ground surface, suggesting that vegetation in these areas is dependent on water from the vadose zone rather than the underlying aquifer.
- In areas where the presence of shallow lower-permeability layers above the water table create the potential for water perching, construction of flood control/recharge basins may enhance riparian vegetation development.
- Site-specific evaluation of local hydrogeologic conditions is necessary to determine specific recharge-related characteristics of any location.

1.0 INTRODUCTION

Under contract to Stantec Consulting Inc., GeoSystems Analysis, Inc. has performed a baseline compilation of hydrogeologic information in the Lee Moore wash area. The baseline hydrogeologic compilation encompassed the following:

- A summary of geology from previous studies.
- An evaluation of surficial and regional geology and determine where geologic conditions are favorable for incidental recharge.
- Identification of existing ADWR permitted wells and estimate existing groundwater elevations from available groundwater elevation data.
- Evaluation of riparian zone habitat locations in relation to estimated groundwater elevations.
- Evaluation of water service provider and other water-producing well locations and proximity to riparian habitat areas.

1.1 Description of Study Area

The Lee Moore Watershed Study Area (Study Area) is a watershed greater than 200 square miles in size and located in the southern portion of the Tucson Basin, south of the City of Tucson, within Townships 15-18S, Ranges 13-16E (Figure 1). The Tucson basin, a sub-basin of the Upper Santa Cruz River Basin, is a structural depression in the southern Basin and Range physiographic province in southeastern Arizona and drains northwest to the Santa Cruz River (Davidson, 1973), which constitutes the Study Area's western edge. Figure 1 shows the Study Area location and delineates property ownership and water service provider areas.

1.2 Hydrogeologic Assessment Methods

GSA's hydrogeologic assessment approach included a review of literature on surface and subsurface soils and hydrogeology and creation of maps and hydrogeologic cross-sections showing soil hydraulic characteristics, depth to bedrock, depth to water, distribution of water production wells, and subsurface geology. Emphasis was placed on that portion of the Study Area with sufficiently deep water-conducting and water-bearing strata (i.e. basin fill) to be considered for a stormwater capture/incidental recharge basin. The Santa Rita Mountain area in the Study Area's southeast corner, with outcroppings of surface bedrock, (Figure 1) was excluded from further examination. Data sets employed were predominantly broad in spatial scale and therefore appropriate for area-wide screening purposes and not as a substitute for on-site field investigations.

1.2.1 Soils and Geomorphology

Soils in the Study Area were evaluated for the presence of soil types that could limit stormwater infiltration. Soil surveys for Eastern Pima County (Cochran and Richardson 2003), Tucson-Avra Valley (Gelderman 1972), and the Upper Santa Cruz (Richardson et al. 1979) were reviewed and digital spatial and tabular data from these surveys from Natural Resource Conservation Service's

7/5/2007

(NRCS) Soil Data Mart (U.S. Dept. of Agriculture, NRCS 2006) were used for mapping and analysis. Estimated soil clay content and permeability were among those characteristics examined.

Stream channel coverages from the Pima County Dept. of Transportation's GIS Division (2006) were used for mapping, as were surface bedrock coverages from the Arizona Dept. of Water Resources (ADWR) GIS Data CD-ROM (2002) and a 10-m digital elevation model of land surface elevation constructed by Stantec.

1.2.2 Subsurface Hydrogeology

Literature on the subsurface geology of the Study Area was reviewed for the purpose of identifying potentially infiltration-limiting units. Oppenheimer and Sumner's (1980) depth-to-bedrock map was used to approximate depth to bedrock in the Study Area. Data from ADWR databases concerning wells in the Study Area were used to describe subsurface hydrostratigraphy, location and recent movement of the water table, and areas of ongoing high-volume water extraction and recharge.

Water production wells in the Study Area were identified using ADWR's Wells-55 Database (2006), which contains records for wells registered with the State of Arizona. The list of wells is in Appendix 1. To construct cross-sections providing information on localized hydrogeology, driller well logs were examined. For each well in the Study Area, the Wells-55 well registration number was searched in the ADWR Imaged Records Database (ADWR 2006) for usable logs, and when available, the logs were recorded. Most wells with usable logs were domestic water production wells located on privately-held land in the western half of the Study Area. A subset of wells with usable logs was then mapped to identify combinations of 3 to 5 wells covering a linear distance of approximately 1 mile and oriented perpendicular to the general direction of groundwater flow. Driller log hydrostratigraphic unit descriptions were simplified to note depth interval indications of the presence of sand/gravel/rock, clay, or conglomerate and cross-sections were drawn using AutoCAD 2006®.

The ADWR GWSI (Ground Water Site Index 2006) database was queried to establish a set of wells within and around the Study Area with water level measurements made from January 1, 1995 to June 16, 1996 and from January 1, 2005 to June 15, 2006. GWSI measurements are most often made between November and April during the low-pumpage portion of the water year (T. Davis, ADWR, personal communication 1/07). ArcView 9.1® (2006, ESRI, Redlands, CA) was used to create a subset of wells within a 1-mile buffer outside the Study Area boundary.

Depth to water and water table elevation data for these wells were reviewed for data quality and some data points were excluded based on comments recorded at measurement. Where multiple measurements had been recorded in either of the two time periods, only the most current measurement was included. Contour mapping graphics were created with a kriging function in Surfer® (ver. 8.03, 2003, Golden Software, Inc., Golden, CO).

1.2.3 Riparian Areas

The ADWR Wells-55 (2006) database was queried to define subsets of potentially high-volume production wells in the Study Area and location relative to riparian habitat. From the Wells-55 database, well subsets were extracted for Non-Exempt status water production. Map coverages with these wells were overlaid on a base map showing Study Area riparian areas.

2.0 SOILS AND GEOMORPHOLOGY

Soil survey mapping was used to generate a broad view of surface conditions in the Study Area and to identify areas with infiltration characteristics generally suitable for construction of a stormwater capture/incidental recharge basin.

Figure 2 shows soil associations and boundaries of the three soil survey areas included in the Study Area. Soil associations are composed of two or more soil series with a distinctive pattern of soils, relief, and drainage. Soils mapping at this scale is useful for comparing the suitability of large areas for various community and engineering uses. Emphasis here was placed on identifying areas with different ranges of water infiltration under saturated conditions. Soil associations exhibiting high infiltration in their natural state may have a greater potential for recharging the underlying aquifer than do those with low infiltration.

Table 1 presents detailed permeability characteristics of soil associations shown in the generalized soils map (Figure 2). Soil associations in Table 1 are arranged by landform beginning with soils located on lower elevation landforms (e.g. the basin floor) and ending with those on higher elevation landforms (e.g. terraces and piedmont plains). The major soil series comprising each association are described beginning with the soil comprising the greatest percentage of the landform and ending with the soil comprising the lowest percentage of the landform, excluding minor soil series. Although these percentages are based on the entire area of each survey, it is expected that Lee Moore Watershed Study Area is generally representative of the survey areas.

The majority of the data in Table 1 were obtained from tables in the soil surveys listing engineering properties of the major soil series and not of the association. As a result, it was necessary to estimate pertinent engineering data for soil associations based on data for their constituent soil series. Permeability data for each association were obtained by combining permeability data from the major soil series making up the soil association as follows:

- For each major soil series, the midpoint of the permeability range for each textural layer was assumed to be a representative value for that layer.
- These permeability midpoints were then used to determine the harmonic mean of layers (Bouwer, 1986) present from ground surface to a depth of 20 to 30 inches below ground surface (bgs) for each major soil series.
- These harmonic means were then weighted based on the fraction of the total area of the soil association occupied by each soil series, and then summed to provide a representative harmonic mean for the entire soil association.

7/5/2007

The harmonic mean permeability of layers in the upper 20 to 30 inches of soil associations ranges over 2 orders of magnitude from 8.3 ft/day to 0.06 ft/day. Soil association permeability ranges from moderately rapid in basin floor, flood plain, alluvial fans, and relic fan terrace landforms to moderately slow in fans, terraces, and piedmont plains. That is, there appears to be an inverse relation between the relative elevation of landforms and the permeability of the soil associations.

A map showing qualitative permeability by soil association is presented in Figure 3. Note that the higher permeability soil associations are located in the northern and central portions of the Study Area and the lower permeability associations are located in the southern portion. This corresponds, in general, to the inverse relationship between the relative elevations of the landforms and permeability as described above.

A map showing soil percent clay is presented in Figure 4. For this map, data on soil clay content were taken from the detailed soil map units with measurements for specific soil series. Note that there may be differing evaluations of clay content in contiguous map units across the boundaries of separate soil surveys. Figure 4 shows large areas of higher clay content (>20%, lower permeability) in the south central portion of the Study Area as well as in stream channel interiors in the northern portion. The northern Study Area has a relatively flat surface topography (Figure 1) and the higher clays present in these channels indicate the presence of deep deposits of alluvium, which may provide high recharge potential. For example, the Pima Mine Road Recharge Project, located just to the west of the Study Area (Figure 4) recharges on average 2,000-2,500 acre-ft/month (Central Arizona Project, 2006).

3.0 SUBSURFACE HYDROGEOLOGY

Permeability of geologic layers overlying and including the aquifer determine the potential rate of recharge and water storage capacity beneath a stormwater capture/incidental recharge basin. Literature on the hydrogeology of the southern central Tucson Basin was reviewed with particular attention to units at these depths below the ground surface.

The Study Area lies across a deep basin, and, for overview purposes, Figure 5 shows approximate depth to bedrock and indicates the deepest bedrock (11,200+ ft bgs) to be in the north-central portion, with depths decreasing to approximately 8,000 ft bgs to the south-central edge, to 3,200 ft bgs along the Santa Cruz River, and to less than 400 ft bgs at the base of the Santa Ritas.

An interpretation of Tucson Basin stratigraphy was presented by Davidson (1973) based on examination of geologic data from numerous water supply and test wells. This interpretation was later revised by Anderson (1987). Table 2 summarizes Anderson's stratigraphy for the upper approximately 1,100 ft of basin fill deposits in Exxon State Well (32)-1, located north of the Study Area (Figure 5). Since the Davidson (1973)/Anderson (1987) stratigraphic unit nomenclature has been in use for more than 30 years and appears in numerous Tucson Basin technical reports, it will be used in this report. This interpretation (Table 2) shows surficial alluvial deposits overlying the Fort Lowell Formation and Tinaja Beds, in which the primary aquifer is located. These latter two units overlie the Pantano Formation.

A recent report by Houser et al. (2004) presents a revised stratigraphy based on drill cuttings and geophysical logs from nearly the entire 12,556 ft depth of the same well. Table 3 shows the revised unit descriptions. It is possible that the Houser et al. (2004) interpretations will eventually be shown to have more merit for describing hydrogeology in the Tucson Basin than earlier studies. This conclusion however, would require the revision of several key hydrogeology reports for the Tucson Basin.

3.1 Surficial Deposits

Surface alluvial deposits constitute the primary material through which water moves into the aquifer and their depth and thickness in a potential basin are critical to determining the infiltration rate at that site.

Present-day stream channels contain the youngest surficial deposits, which were laid down by a north-northwest-flowing stream system in an open inter-basin depositional environment; such as, where the Santa Cruz River connects with the Gila River, which drains into the Colorado River. Deeper, older stratigraphic units, including the Fort Lowell Formation and the Tinaja beds, were deposited primarily in a closed basin environment (i.e. no interbasin through-flow drainage) and, hence, may contain more fine-grained materials. The distribution of these deposits have been described by Smith (1938) and later revised by Pashley (1966).

Surficial deposits along streams are 40 to 100 ft thick and average approximately 50 ft thick. The terrace and stream alluvium is composed of coarse gravel, silty gravel, and gravelly sand to sandy silt. All surficial deposits are well-drained and unsaturated except along some portions of the Santa Cruz River where the water table is too high to drain them. The older deposits making up terraces are more compacted and cemented than are younger stream deposits (Davidson, 1973) and are not favorable for groundwater recharge of retained stormwater. In contrast, stream channel deposits are generally loosely-packed and uncemented, and therefore rapidly transport significant amounts of floodflow downward to the underlying aquifer. In general, the coarse nature of the surficial deposits should not restrict natural or artificial infiltration and groundwater recharge.

Figure 6 shows a map locating the cross-sections to be discussed in this report. Figure 7 shows Davidson's (1973) cross-section "H", running east-west across the north-central portion of the Study Area. The four easternmost wells are within the Study Area boundary. Figure 7 illustrates the relatively thin (0-100 ft bgs) layer of recent alluvium and the increasing depth of the primary aquifer (Fort Lowell Formation and Tinaja Beds) from the Study area's edges toward its center.

This cross-section also shows a general increase in fines content in the surficial and underlying deposits from the eastern edge of the Study Area to its center. These trends in fines content are reasonable and consistent with sediment deposition processes and subsurface data from other studies in the Tucson basin.

However, the relatively low percentages (generally less than 30%) of coarse-grained materials (gravel and sand) shown in both surficial and underlying deposits in Figure 7 are not consistent with information and data presented herein, nor with data in several recent in-depth hydrogeologic characterization studies in the Tucson Basin. That is, less than 30% coarse

7/5/2007

material is far too low compared to laboratory-measured particle size distribution data from recently drilled boreholes in the Tucson Basin. For example, recent studies in Cañada del Oro (GeoSystems Analysis, Inc., 2000) and in Rillito Creek (Hoffmann and Others, 2002) have shown that recent alluvium and the underlying Fort Lowell Formation generally contain more than 70% coarse materials. Although these studies were conducted a considerable distance to the northwest of the Study Area, the percentage of coarse material measured is likely more representative of the Fort Lowell Formation in the Tucson Basin than the values shown in Figure 7. The low percentages of coarse material shown in Figure 7 are likely the result of attempting to extract quantitative data (% coarse material) from very qualitative and often poor quality drill logs. In summary, the graphs of percent coarse material in Figure 7 likely provide useful data regarding general trends in coarse (and fine) particle size fractions, but should not be considered useful to provide accurate quantitative data on size fractions.

Figures 8, 9, and 10 show well-log cross-sections for three shorter transects (A, B, and C, respectively) in the Study Area. Locations for these transects, each running approximately southwest to northeast, perpendicular to surface and groundwater flow, are shown in Figure 6. Wells were drilled to between 350 and 500 ft bgs in surficial deposits. Although driller logs for transects A and B indicate the presence of clays and some conglomerate/caliche layers through most depth increments in all the wells, they also noted sand, gravel or rock content through most of the well depths. Only the two northeastern wells in transect C, in the Study Area's southwest corner, show fines and conglomerate/caliche layers extending from the surface to beyond the first 25 ft bgs.

3.2 Fort Lowell Formation/Upper Tinaja Beds

The Fort Lowell Formation is a productive water-bearing unit in which the water table is most often located. Its depth and thickness beneath a potential basin site will influence the storage potential and infiltration rate for that basin.

The Fort Lowell is a locally-derived sedimentary deposit unconformably overlain by younger surficial deposits and unconformably overlying the older Tinaja Beds in most of the Tucson Basin (Davidson 1973, Anderson 1979). The Fort Lowell deposits consist of 300 to 400 ft of gravel to clayey silt throughout most of the basin, but thin toward the mountains. As a result of its fluvial depositional environment, the formation grades from a silty gravel near the margin of the basin to a silty sand and clayey sand, with decreasing permeability, in the central part of the basin.

Figure 7 shows the Fort Lowell across the northern portion of the Study Area trending from approximately 250 ft thick (10 ft bgs) on the western and eastern edges to 400 ft thick (100 ft bgs) near the Santa Cruz. Cross-sections for the easternmost two wells show the Fort Lowell to be fully saturated, while the two westernmost wells show an unsaturated zone in the upper one-quarter to two-thirds of the unit.

In some locations, including along the margins of the Study Area's eastern and western slopes, the upper surface of the Fort Lowell does not appear to be eroded and a red clayey soil underlain by caliche cemented zone has developed in the upper few feet of the unit. Other potentially lower-permeability layers are interpreted to be present at depth within the Fort Lowell and the

7/5/2007

Upper Tinaja beds based on density geophysical logs in Exxon State Well (32)-1 by Houser et al. (2004). These researchers interpret numerous higher and intermediate bulk density peaks in the upper approximately 1,100 ft to be due to the presence of thin calcite cemented gravel (conglomerate) beds less than 5 ft thick; and slightly indurated, calcareous micaceous siltstone and sandstone beds 5 to 10 ft thick, respectively.

Despite the prevalence of finer-textured sediments (silty sand and clayey silt) in the Fort Lowell Formation, Davidson (1973) states that the Fort Lowell Formation is a highly permeable unit and supplies a significant amount of water used in the basin. Well test data indicates that Fort Lowell permeabilities range from 150 to at least 700 gpd/ft², water supply wells commonly yield 500 to 1,500 gpm, and specific capacities range from 10 to 100 gpm per ft of drawdown (Davidson, 1973). A high horizontal permeability allows water to move beyond the lateral extent of any low-permeability stratum and downward in a stair-stepping manner toward the aquifer. The Fort Lowell exhibits these favorable productivity values despite often being unsaturated over 50 percent of its thickness at many locations. Finally, nearly all water produced from the Fort Lowell Formation contains less than 500 mg/L dissolved solids, is a calcium sodium bicarbonate type, is moderately hard to hard, and is well suited for public supply (Davidson, 1973).

The Upper Tinaja Beds, which also contain lower-permeability facies, are another major producing aquifer in the Tucson Basin (Davidson, 1973). Parameters related to the water-producing capability of the Upper Tinaja Beds are expected to be slightly less favorable than those presented for the Fort Lowell Formation. Since the Upper beds are more permeable than underlying beds, it is expected that Upper bed parameters to be near the upper end of the parameter ranges given by Davidson (1973). These ranges are as follows: permeability – 10 to 400 gpd/ft², transmissivities – 10,000 to 150,000 gpd/ft, and specific capacities – 1 to 40 gpm per ft drawdown.

Although the saturated portion of the Fort Lowell formation likely will provide no obstacles to natural or artificial recharge, lower-permeability layering in the overlying unsaturated zone, when laterally extensive, may restrict the downward movement of water and result in perching and lateral spreading. Site-specific work may be required to evaluate these potential perching layers when conducting more in depth evaluation of artificial recharge potentials of sediments in Lee Moore watershed.

3.3 Groundwater

Depth to groundwater and groundwater movement beneath the Study Area will affect the storage capacity and the sphere of influence of recharged stormwater. Water table location and changes in the water table elevation over time were examined to identify areas where a stormwater recharge basin might provide an offset to groundwater losses due to withdrawal.

Figures 11 and 12 show depth to water in the Study Area generated from measurements made in GWSI wells in 1995-6 and 2005-6, respectively, and Figures 13 and 14 show groundwater elevation in the Study Area generated from measurements made in the same two periods. Appendices 2a and 2b provide lists of GWSI wells with water level measurements in 2005-6 and 1995-6, respectively. Note that the set of wells where depth to water was measured in the 1995-

7/5/2007

6 time period (Figure 11) differed somewhat from the set of wells measured in the 2005-6 period (Figure 12); and as expected, kriged contour lines are somewhat different.

In addition, two wells (GWSI Well Site IDs 31584011463701 and 320253110423701) exhibit depth to water values approximately 100 ft deeper than most nearby wells suggesting that significant pumping is occurring from these wells. To improve the fit between kriged contour lines and measured values in the area west of Houghton Rd and east of Sahaurita Rd in and near the Study Area, these two wells were removed from the 1995-6 well data set, and the former well (GWSI ID 31584011463701) was removed from the 2005-6 data set. Finally, because of the virtual absence of depth to water measurements in the region east Houghton Rd and south of Sahaurita Rd (Figures 11 and 12), the kriged contour lines in this region likely have little, if any meaning.

Groundwater flow, like that of surface water, is toward the northwest, except near the Santa Cruz River in 2005-6 (Figure 14), where groundwater levels have been impacted by the implementation in 2000 of the Pima Mine Road Recharge Project (PMRRP) located just west of the Study Area (Central Arizona Project 2006).

Of those 63 wells having GWSI water level measurements in both 1995-6 and 2005-6, 27 wells showed declines between 1 and 25 ft (mean decline of 13 ft) and 33 showed recoveries between 3 and 76 ft (mean recovery of 38 ft). Three wells showed no change in groundwater level. Table 3 provides a list of these wells with water table elevation and depth to water during both time periods.

Shallow groundwater (46 to 202 ft bgs) is found within approximately 3 miles of the Study Area's western edge where groundwater measured in the same wells in both time periods examined has risen an average of 28 ft (median of 30 ft and range of -19 to +76 ft) due to operation of the PMRRP. Water levels in wells located east of that 3-mile area range in depth from 42 to 555 ft bgs and have declined a mean 12 ft (median of -13 ft and range of -25 to +5 ft) in the 10-year period. Figure 15 shows the change in water levels between 1995-6 and 2005-6 from east to west.

The ADWR Wells-55 database was used to identify potentially high water production wells in the Study Area. As of September 2006, the database contained records for 570 water production wells in the Study Area. 487 of these records include an installation date and, of these, 350 were installed by June 1996 and 137 were installed after that date (by June 2006), representing a 39% increase in the number of wells during the 10-year period. Because these wells are all "Exempt" stock or domestic wells, they typically use less than 2 acre-ft per annum (afa), however, depending on the aquifer transmissivity and storativity, this rate of use over a 10 year period could still result in a substantial amount of aquifer drawdown. It is not known whether any of the 83 wells with unknown installation dates contribute to the observed drawdown.

Because wells with measurements are unevenly distributed spatially throughout the Study Area and are particularly sparsely distributed in its eastern and southern portions, groundwater elevation interpolations are made over broad ranges and should be cautiously interpreted. Also note: Unless specific geographic coordinates are provided by the driller or well owner, ADWR

assigns to both the ADWR Wells-55 and GWSI databases approximate UTM coordinates, using the cadastral location, to the 10-acre (center point of the $\frac{1}{4} \times \frac{1}{4} \times \frac{1}{4}$ section) level. Mapped well coordinates may therefore differ somewhat from on-the-ground well locations.

4.0 RIPARIAN AREAS

Conservation of riparian habitat in the Study Area requires ensuring a reliable water source for mesquite and other riparian plant species. In addition, the presence of a stormwater capture/incidental recharge basin may offer the potential to offset groundwater losses from nearby water production wells or result in shallow perched groundwater that could be utilized by vegetation.

Figure 16 shows depth to water generated from 2005-6 GWSI measurements relative to riparian habitat in the Study Area. This figure indicates that, within the mapped riparian areas, the regional groundwater table is well below the maximum depth (10-30 ft bgs, Stromberg et al. 1996) used by facultative phreatophytes, such as mesquite, which inhabit the area's riparian corridors. Although the groundwater elevation data in some areas are sparse, these data indicate that the Lee Moore Watershed riparian habitat areas are most likely supported by seasonal precipitation stored within the vadose zone (i.e. perched water). The extent to which facultative phreatophytes require groundwater is reflected in the canopy density (Scott, 2007). For example, groundwater use by mesquites on the terrace deposits of the San Pedro River vary greatly, such that lower mesquite density areas have been observed to rely mainly on precipitation (Scott et al., 2000), whereas higher mesquite density areas are reported as using primarily groundwater (Scott et al., 2004). Recent work has also shown that mesquite have the ability to hydraulically redistribute near surface soil water to greater depths for future use during dry periods (Hultine et al., 2004). Consequently, in the absence of additional field data collection on mesquite density and the occurrence of shallow groundwater in these areas, the existing data indicates that the riparian habitat areas are not connected to the regional aquifer system.

Figure 16 also shows all wells with "Non-Exempt" status and their primary water use. Most of these are domestic and irrigation wells located along the Santa Cruz River and municipal water service wells distributed across the northwest quarter of the Study Area. Most of these wells, and 11 of the 14 wells located actually within a riparian area, are in the zone due west of the PMRRP, where the water table is rising due to this large-scale recharge effort. Consequently, it is unlikely that groundwater pumping from the regional aquifer will impair riparian habitat present in the Lee Moore Watershed area. Nonetheless, site specific monitoring would be necessary to confirm the absence (or presence) of shallow groundwater conditions.

5.0 SUMMARY

A baseline hydrogeologic data compilation was performed for the Study Area with respect to the general potential for stormwater detention basins to contribute groundwater recharge to the local aquifer. The following observations can be made from the existing data:

- Soil series data indicate increasing soils permeability in the central to northern areas of the Study Area, inversely proportional to surface elevation. Consequently, stormwater capture/incidental recharge basins in the central portion of the Study Area may be more favorable for recharge.
- Soil clay content distributions indicate areas of potential moderate permeability in the central and southwestern regions of the Study Area; and lower permeability and slower infiltration in areas of bedrock exposure in the south-central area and in channel bottoms in the northern portion of the Study Area. The presence and the likely effect of restrictive clays on recharge from stormwater capture/incidental recharge basins should be evaluated on a site-specific basis.
- Older stream deposits (terraces) are more compacted and cemented than younger stream channel deposits and therefore should be identified and avoided if possible. In contrast, younger stream channel deposits along existing channels can be highly permeable. Stormwater/recharge basins should be located on these younger deposits, if possible.
- Well-based hydrogeologic cross-sections suggest that relatively-permeable surface alluvial sediments range from 0-100 ft in thickness above the lower-permeability Fort Lowell Formation. Even though the underlying Fort Lowell Formation has numerous lower permeability layers, they are likely not continuous over long distances. The presence and the likely effect of such layers in restricting recharge from stormwater capture/incidental recharge basins should be evaluated on a site-specific basis.
- Groundwater levels have dropped an average of 12 ft between 1995-96 and 2005-06, except for the Study Area's northwest portion, adjacent to the Pima Mine Road Recharge Project, where well water levels have increased by as much as 76 ft.
- Interpolated groundwater elevations below mapped riparian areas are greater than 60 ft below ground surface, suggesting that vegetation in these areas is dependent on stored vadose zone water rather than the regional aquifer.
- In areas where the presence of shallow lower-permeability layers above the water table create the potential for groundwater perching, construction of flood control/recharge basins may enhance vegetation development.
- Site-specific evaluation of local hydrogeologic conditions is necessary to determine specific recharge-related characteristics of any location.

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7/5/2007

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Table 1. Permeability of Soil Associations in the Lee Moore Wash Study Area

							Permeability ⁴ Numerical and Qualitative Values				
Soil Association	Landform	Soil Series	Approximate Fraction of Association Area Occupied by Soil Series (Ignoring Minor Soils) ¹	Depth below Ground Surface	Dominant USDA ² Texture	USCS ³ Group Symbol	Range	Midpoint	Harmonic Mean of Layers in Upper 20 to 30 inches ⁵	Harmonic Mean Weighted by Fractional Area of Major Soils	Qualitative Permeability ⁶ of Soil Association Based on Harmonic Mean
				inches bgs			feet/day	feet/day	feet/day	feet/day	
Hayhook-Mohave-Tubac	Basin floors and fan terraces	Hayhook	0.54	0-24	Sandy loam	SM, SC-SM	4-12	8.0	8.00	5.2	Moderately Rapid
				24-38	Gravelly sandy loam	SM, SC-SM	4-12	8.0			
				38-60	Gravelly loamy sand, loamy sand	SM, SP-SM, SC-SM	12-40	26.0			
		Mohave	0.26	0-3	Loam	SC, CL, CL-ML, SC-SM	1.2-4	2.6	2.78		
				3-6	Sandy loam	SC, SC-SM,	4-12	8.0			
				6-40	Sandy clay loam, clay loam	SC, CL	1.2-4	2.6			
		Tubac	0.20	40-60	Loam	SC, SC-SM,	1.2-4	2.6	0.72		
				0-2	Sandy Loam	SM, SC-SM, SC	4-12	8.0			
				2-14	Loam	CL, CL-ML	1.2-4	2.6			
				14-31	Clay	CH, MH	0.12-0.4	0.26			
Grabe-Anthony-Gila	Flood plains and alluvial fans	Grabe	0.43	0-60	Loam stratified with sandy loam, silt loam, and silty clay loam (gravelly in places)	SM or ML	1.26-4	2.64	2.64	4.5	Moderately Rapid
		Anthony	0.32	0-60	Gravelly sandy loam or sandy loam	SM	4-12.6	8.30	8.30		
		Gila	0.25	0-60	Loam stratified with very fine silt loam, sandy loam, and silty clay loam	ML or CL	1.26-4	2.64	2.78		
Sonoita-Valencia-Tubac	Terraces and alluvial fans	Sonoita	0.56	0-72	loam surface layered in laces)	SC or ML	1.26-4	2.64	2.64	3.4	Moderate
		Valencia	0.22	0-24	Sandy loam	SM	4-12.6	8.30	8.30		
				24-48	Sandy clay loam	SC	0.4-1.26	0.82			
				48-60	Sandy loam	SM	4-12.6	8.30			
		Tubac	0.21	0-10	clay loam, and clay	SM, ML, SC, or CH	1.26-12.6	7.00	0.42		
				10-25	Clay	CH	0.12-0.4	0.26			
				25-45	Clay loam	CL	0.4-1.26	0.84			
				45-60	Very fine sandy loam	ML	1.26-4	2.64			
Pinaleno-Stagecoach-Cave	Fan terraces, relic fan terraces, and hills	Pinaleno	0.61	0-2	Very cobbly sandy loam	SC, SC-SM	4-12	8.0	0.86	2.7	Moderate
				2-30	Extremely cobbly sandy clay loam	GC	0.4-1.2	0.8			
				30-60	Extremely gravelly sandy clay loam	GP-GC	0.4-1.2	0.8			
		Stagecoach	0.28	0-10	Very gravelly sandy loam	GM, GM-GC, GP-GM	4-12	8.0	8.00		
				10-19	Very gravelly loam, very gravelly sandy loam, gravelly sandy loam	GM-GC, SC-SM, GC, SC	4-12	8.0			
				19-40	Extremely gravelly loam, extremely gravelly sandy loam	GC, GM-GC, GP-GM, GM	4-12	8.0			
				40-60	Very gravelly loamy sand	GP-GM, GM, GM-GC	12-40	26.0			
		Cave	0.12	0-7	Gravelly fine sandy loam	SM, SC-SM	1.2-4	2.6	0.06		
				7-20	Indurated	-	<0.12 ¹⁰	0.04 ¹⁰			
20-60	sand loam			SM	4-12	4.0					
Cave-Rillito-Mohave	Low dissected terraces	Cave	0.49	0-11	Gravelly loam (loam or gravelly sandy loam in places)	SM or ML	1.26-12.6	7.00	0.08	1.14	Moderately Slow
				11-42	Indurated hard pan	-	>0.12 ¹⁰	0.04 ¹⁰			
				42-60	Weakly cemented gravelly loamy coarse sand	SM	0.12-0.4	0.26			
		Rillito	0.38	0-54	Gravelly loam	SM	1.26-4	2.64	2.64		
				54-64	Very gravelly sandy loam	GM	4-12.6	8.30			
		Mohave	0.13	0-33	Clay loam	CL	0.4-1.26	0.84	0.84		
				33-60	Loam	ML	0.4-4	2.60			
Bernardino-White House-Hathaway	Fans and piedmont plains	Bernardino	0.47	0-14	Gravelly clay loam and clay	CH	0.12-1.2	0.66	1.06	1.0	Moderately Slow
				15-60	Gravelly sandy loam	SM, SM-SW	1.2-4	2.6			
		White House	0.35	0-39	Gravelly loam, clay loam, and clay	CL	0.12-0.4	0.26	0.2		
				39-78	Gravelly sandy clay loam	SC	0.4-1.2	0.8			
		Hathaway	0.19	0-60	Gravelly sandy clay loam, gravelly and very gravelly sandy loam, and sandy loam	GM, GM-GP	1.2-4	2.6	2.6		
Continental-Sonoita	Fans and terraces	Continental	0.53	0-10	Gravelly sandy loam and gravelly sandy clay loam	SM, SC	1.2-4	2.6	0.38	0.6	Moderately Slow
				31-72	Gravelly and very gravelly sandy clay loam, and gravelly sandy loam	SC	1.2-4	2.6			
		Sonoita	0.47	0-70	Gravelly sandy loam	SM	0.4-1.2	0.8	0.8		

¹ Assumes fractional area occupied by each soil series in the associations covered by the soil survey (Cochran and Richardson, 2003) is approximately equal the fractional area in the associations within Lee Moore Wash. Minor soil series are ignored.

² U.S. Department of Agriculture.

³ Unified Soil Classification System.

⁴ Equivalent to infiltration or percolation rates.

⁵ A layer which ends in the interval of 20 to 30 inches below ground surface is assumed to be the bottom-most layer in the calculation. If a layer does not end over this depth interval and ends at a depth exceeding 30 inches, it is assumed to end at 30 inches and is considered the bottom-most layer. If the bottom-most layer is bedrock and extends less than 20 inch bgs, it is assumed to extend downward to 20 inches.

⁶ See definition of permeability in Richardson, Clemmons, and Walker (1979), and Cochran and Richardson (2003).

⁷ Hydrologic groups defined in Table 5.

⁸ Assume Hydrologic Groups A, B, C, and D have numerical values equal to 4, 3, 2, and 1, respectively.

⁹ Qualitative infiltration (transmission) and runoff rates are defined in Table 5.

Table 2. Cenozoic Stratigraphy of Exxon Well (32)-1 for Fort Lowell Formation through Middle Tinaja Beds Anderson (1987)

Stratigraphic Unit		Depth Interval		Depositional Environment	Rocks	Age (Epoch)
	Sub Unit	Top ft bgs	Bottom ft bgs			
Surficial Deposits		0	30 ^a	Mature through-flowing stream flow resulting in alluvial fans, sheetflow, and stream channel deposits	Tens of feet of gravel and gravelly sand of fluvial origin.	Holocene to Late Pleistocene (Present to ~1.3 Ma)
Fort Lowell Formation		30 ^a	350 ^b	Transition from closed-basin to interbasin depositional environment (through-flow drainage) resulting in deposition of alluvial fans and alluvial plains from materials from the surrounding mountains.	300 to 400 ft of gravel to clayey silt	Late Pleistocene to Late Pliocene (~1.3 to ~2 Ma)
Tinaja Beds	Upper	350 ^b	1114 ^b	Second episode of basin and range block faulting sedimentation, and subsequent uplift	Hundreds of feet of sand and clayey silt in center of basin and gravel and sand on the edge of the basin. No accumulation of evaporites.	Late Pliocene to Late Miocene (~2 to ~6 Ma)
	Middle	1114 ^b	6170 ^c	First episode of basin and range block faulting and horst-garben trough formation,, sedimentation, and subsequent uplift	Thousands of feet of coarse to fine grained sediments and evaporites. Gypsiferous and anhydric clayey silt and mudstone. Missing along edge of basin.	Late Miocene(?) to Middle Miocene(?) (~6 to ~12 Ma)
	Lower			Widespread continental sedimentation, volcanism, plutonism, uplift, and complex faulting and tilting of rock units	Silty gravel and conglomerate	Middle Miocene(?) to Early Miocene(?) (~12 to ~24 Ma)
Pantano Formation		6170 ^c	8256 ^c	Widespread continental sedimentation, volcanism, plutonism, uplift, and complex faulting and tilting of rock units	Conglomerate, sandstone, mudstone, and gypsiferous mudstone. Interbedded in places with volcanic flows and tuffs, and locally contain landslide debris and lenses of megabreccia.	Late Oligocene(?) to Late Eocene(?) (~24 to ~38 Ma)

^a Average thickness of surficial alluvium below terrace level is less than 30 ft per Davidson (1973).

^b Estimated from Plate 1 in Anderson (1979).

^c Assumed Anderson (1979) contact of Lower Tinaja beds/Pantano Formation is the same as the Lower Basin Fill/Pantano Formation in Hauser et al. (2004).

Table 3. Revised stratigraphy for the Exxon State (32)-1 Well by Houser et al. (2004)

Stratigraphic Unit	Sub Unit	Sub-Sub Unit	Depth Interval		Depositional Environment	Rock Types	Age (Epoch)
			Top ft bgs	Depth ft bgs			
Upper Basin Fill	Unit A	Upper Unit A (Cienega Creek fan deposits)	199	1120	Medial alluvial fan	Mainly thin bedded and poorly consolidated pale yellowish-brown alluvial sediments of highly variable density ¹ consisting of interbedded sandy conglomerate, pebbly sandstone, siltstone, and calcareous sandy mud.	Lower Pleistocene(?) or Upper Pliocene(?))
		Lower Unit A	1120	1856	Distal alluvial fan, alluvial plain	Chiefly light brown unconsolidated sand mud and somewhat better indurated, very fine-grained micaceous sandstone of less variable density than overlying sediments. ²	Lower Pleistocene(?) or Upper Pliocene(?))
	Unit B		1856	2980	Playa, playa margin, distal alluvial fan	Gypsiferous sand lime mud, overlying sandy lime mud with sparse gypsum, overlying sandy lime mud and poorly indurated muddy sandstone with minor pebble conglomerate beds.	Lower Pliocene(?) to Upper Miocene(?)
Lower Basin Fill	Unit C		2980	3840	Sandy braidplain, proximal or medial alluvial fan at base of unit	Sandstone, siltstone, and conglomerate at base.	Upper(?) Miocene(?)
	Unit D		3840	6170	Medial to distal alluvial fan	Calcareous mud, siltstone, sandstone, and conglomerate.	Upper(?) and Middle Miocene
Pantano Formation			6170	8256	Syntectonic deposits of alluvial fans, playas, rock avalanches, and volcanic flows	Well consolidated gypsiferous, muddy conglomerate containing an andesite flow, and composite rock avalanche deposit.	Lower Miocene and Upper Oligocene (?) 17 Ma - 26.9 Ma
Mid Tertiary Volcanic and Sedimentary Rocks			8256	10026	Diverse group of rocks with uncertain correlation to units exposed at the ground surface	Lamprophyre(?) dike or sill, intermediate composition lava flow, conglomerate, crystal-lithic ash-flow tuff, limestone conglomerate, pyroxene trachyte flow.	Miocene(?) - Oligocene(?)
Bisbee Group			10026	12001	Fluvial, lacustrine, and marine sedimentary rocks	Shale, sandstone, thin-bedded limestone, and conglomerate.	Lower Cretaceous and Upper Jurassic
Granitoid Rock			12001	12556	Plutonic rocks	Granitoid.	Pre Upper Jurassic

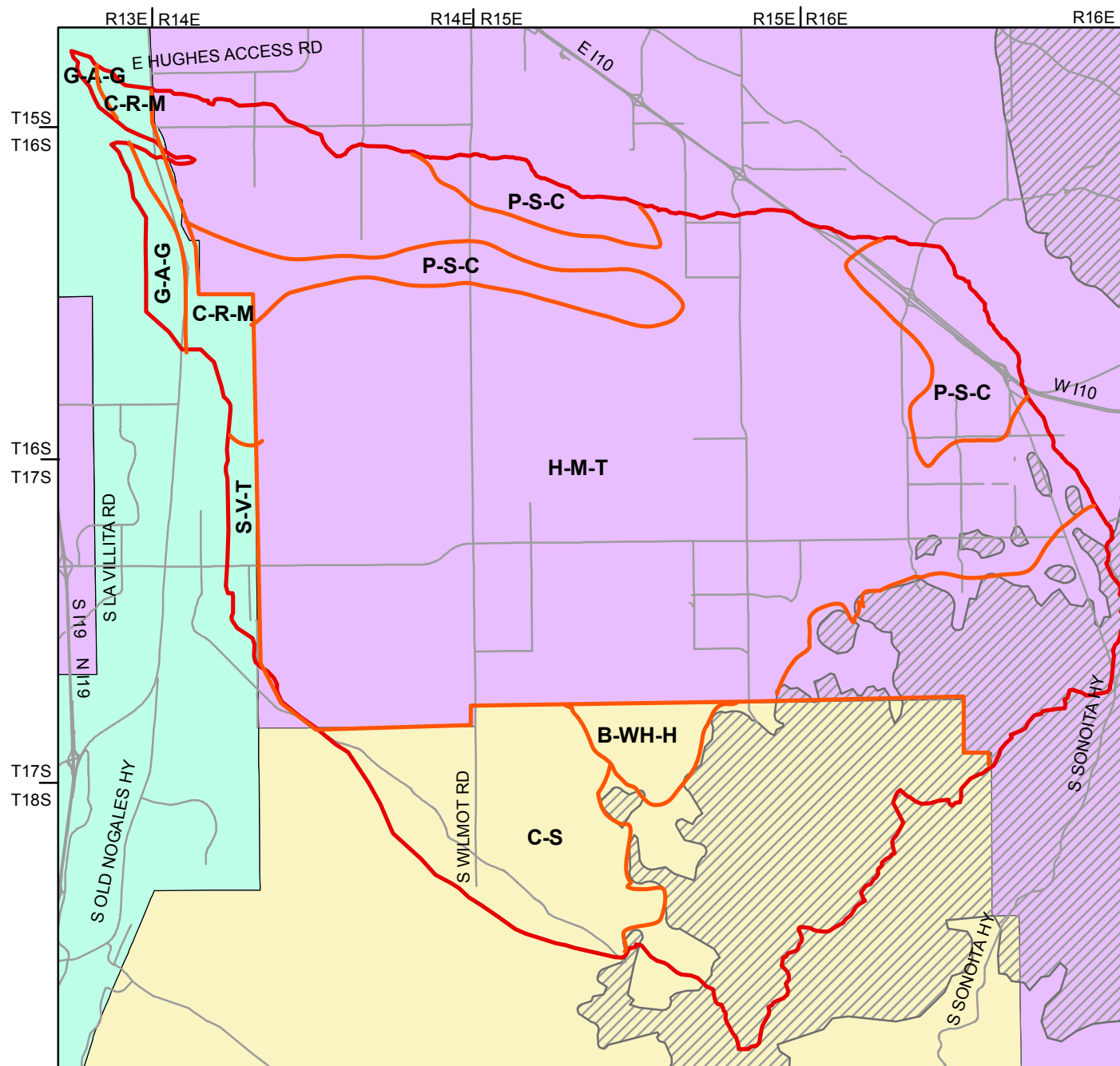
¹ Low bulk density unconsolidated very calcareous sandy mud, thin beds of intermediate density slightly indurated calcareous micaceous siltstone and sandstone beds interbedded with gravel, and thin beds of high density calcite and cemented gravel. Limestone clasts absent below 1040 ft bgs.

² A downward decrease in moderately well cemented conglomerate beds and an increase in sandy lime mud results in a decrease in the variability of bulk density. Color change at 1120 ft bgs and influx of limestone chips at 1040 ft bgs probably records the beginning of deposition of the alluvial fan that occupies much of the surface of the Tucson Basin.

Table 4. GWSI Wells with Water Level Measurements in 1995-6 and 2005-6

GWSI ID	ADWR Reg #	UTM E ¹	UTM N	1995-6			2005-6			Change in GW Depth
				GW Elev ft amsl	GW Depth ft bgs	Meas Date	GW Elev ft amsl	GW Depth ft bgs	Meas Date	
320132110573501	607805	503751	3543081	2507	127	1/19/1995	2576	58	2/15/2005	69
320455110573401	619880	503827	3549331	2471	124	1/20/1995	2501	94	12/16/2005	30
320510110573401	619885	503827	3549701	2474	121	1/9/1995	2503	92	12/16/2005	29
320520110573501	619884	503853	3550163	2454	133	1/9/1995	2500	87	12/16/2005	46
320147110572801	607806	503987	3543543	2504	121	1/19/1995	2569	56	2/15/2005	65
320146110572801	607807	503987	3543512	2495	130	1/19/1995	2558	67	2/15/2005	63
320334110572601	086528	504038	3546838	2468	135	1/18/1995	2491	112	2/1/2005	23
320335110572701	632691	504038	3546868	2475	105	11/30/1995	2515	65	1/11/2006	40
320113110573701	607803	504066	3542496	2510	127	1/19/1995	2586	52	2/15/2005	76
320243110572201	607782	504144	3545267	2501	107	1/19/1995	2551	57	2/15/2005	50
320325110572001	619879	504274	3546684	2486	106	1/9/1995	2525	67	12/16/2005	39
320401110571201	618411	504405	3547669	2485	125	1/27/1995	2515	95	2/2/2005	30
320007110570601	607795	504565	3540465	2531	124	1/19/1995	2587	69	2/15/2005	56
320033110570601	607800	504565	3541265	2538	108	1/19/1995	2596	50	2/15/2005	58
320100110571501	607801	504565	3542035	2517	121	1/19/1995	2592	46	2/15/2005	75
320252110571201	619887	504616	3545545	2494	116	1/9/1995	2535	75	1/1/2006	41
315728110570301	624001	504646	3535569	2556	147	1/10/1995	2542	161	2/23/2005	-14
315849110570001	623998	504881	3537971	2532	143	1/10/1995	2535	140	2/18/2005	3
315913110565301	623999	504881	3538771	2531	139	1/10/1995	2543	127	2/18/2005	12
315812110565301	623997	504882	3536739	2566	124	1/10/1995	2562	128	2/18/2005	-4
315702110565001	623991	504909	3534738	2578	140	1/10/1995	2562	156	2/18/2005	-16
315651110564201	624005	505224	3534369	2556	165	1/11/1995	2537	184	2/23/2005	-19
320033110563401	607818	505273	3541265	2541	114	1/23/1995	2595	60	2/15/2005	54
320218110563701	619877	505324	3544498	2500	143	1/9/1995	2542	100	12/16/2005	42
320143110563601	619882	505351	3543421	2504	131	1/9/1995	2547	88	1/1/2006	43
315728110563901	623981	505381	3535539	2567	137	1/10/1995	2551	153	2/18/2005	-16
320101110563201	607811	505457	3542128	2506	139	1/19/1995	2540	105	2/18/2005	34
320342110562001	801430	505768	3547423	2481	169	1/18/1995	2511	139	2/2/2005	30
320033110561901	607814	505798	3541266	2531	124	1/19/1995	2549	106	2/15/2005	18
320135110560701	619878	506112	3543175	2503	177	1/9/1995	2544	136	12/16/2005	41
315955110555801	617261	506350	3540096	2534	138	1/24/1995	2544	128	2/2/2005	10
320344110554901		506581	3547147	2488	170	1/18/1995	2514	144	2/2/2005	26
315643110554501	634865	506695	3534185	2579	199	1/13/1995	2577	202	2/3/2005	-2
320203110554001	619876	506819	3544037	2505	179	1/9/1995	2537	147	12/16/2005	32
320136110554001	619875	506820	3543206	2508	192	1/9/1995	2544	156	12/16/2005	36
320106110553401	619895	506978	3542283	2515	185	1/9/1995	2546	154	12/16/2005	31
320016110553301	619896	507005	3540743	2525	160	1/9/1995	2544	141	12/16/2005	19
315855110553101	619897	507059	3538249	2553	155	1/9/1995	2547	161	12/16/2005	-6
320429110550701		507682	3548533	2512	161	1/9/1995	2512	161	12/16/2005	0
320124110550601	619888	507712	3542837	2508	180	1/9/1995	2530	158	12/16/2005	22
315857110545501	619898	508004	3538312	2548	177	1/9/1995	2544	181	12/16/2005	-4
320101110550201	619894	508080	3542129	2514	210	1/9/1995	2519	206	12/16/2005	5
320007110533301	619901	510154	3540469	2539	216	1/9/1995	2517	238	12/16/2005	-22
395909110530701	619903	510917	3538745	2554	228	1/9/1995	2529	254	12/16/2005	-25
320043110522901	619893	511831	3542010	2569	233	1/9/1995	2551	251	12/16/2005	-18
320007110522801	619900	512017	3540471	2570	230	1/9/1995	2558	242	12/16/2005	-12
315909110520701	619904	512544	3538747	2591	240	1/17/1995	2578	253	12/16/2005	-13
320053110513501	619905	513327	3541919	2580	261	1/9/1995	2567	274	12/16/2005	-13
320402110502802		514997	3547802	2568	299	12/1/1995	2550	317	1/12/2006	-18
320402110502803		514997	3547802	2592	275	12/1/1995	2572	295	1/12/2006	-20
320345110492601	619870	516624	3547189	2585	320	1/11/1995	2567	338	12/16/2005	-18
320403110483901	611583	517986	3547653	2574	378	1/19/1995	2559	393	2/2/2005	-15
315109110482301	805420	518343	3523947	3918	192	1/13/1995	3910	200	2/25/2005	-8
315130110475201		519209	3524656	4079	76	1/13/1995	4078	77	3/3/2005	-1
315126110473201	804754	519630	3524472	4152	78	1/18/1995	4146	84	2/25/2005	-6
320016110472901	619865	519704	3540760	2610	464	1/11/1995	2597	477	2/8/2006	-13
320238110465201	604337	520613	3545164	2618	437	1/16/1995	2605	450	2/1/2005	-13
315840110463701		521101	3537807	2639	555	12/1/1995	2639	555	1/11/2006	0
315649110430001	533756	526804	3534557	3688	42	1/16/1995	3688	42	1/27/2005	0

1 Wells are ordered by UTM E (west to east)



**Lee Moore Study Area
Figure 2
Soil Associations and
Soil Survey Boundaries**

Legend

- Study Area
- Major Streets
- Surface Bedrock
- Soil Survey Santa Cruz
- Soil survey Pima County East
- Soil Survey Tucson-Avra Valley
- Soil Association boundary



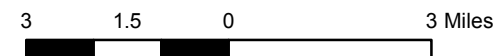
Generalized Soil Associations

- H-M-T Hayhook-Mohave-Tubac
- P-S-C Pinaleno-Stagecoach-Cave
- C-S Continental-Sonoita
- B-W-H Bernardino-White House-Hathaway
- C-R-M Cave-Rillito-Mohave
- S-V-T Sonoita-Valencia-Tubac
- G-A-G Grabe-Anthony-Gila

¹ Gelderman, F.W., 1972. General Soil Map, Tucson-Avra Valley Area, Arizona. U.S. Soil Conservation Service.

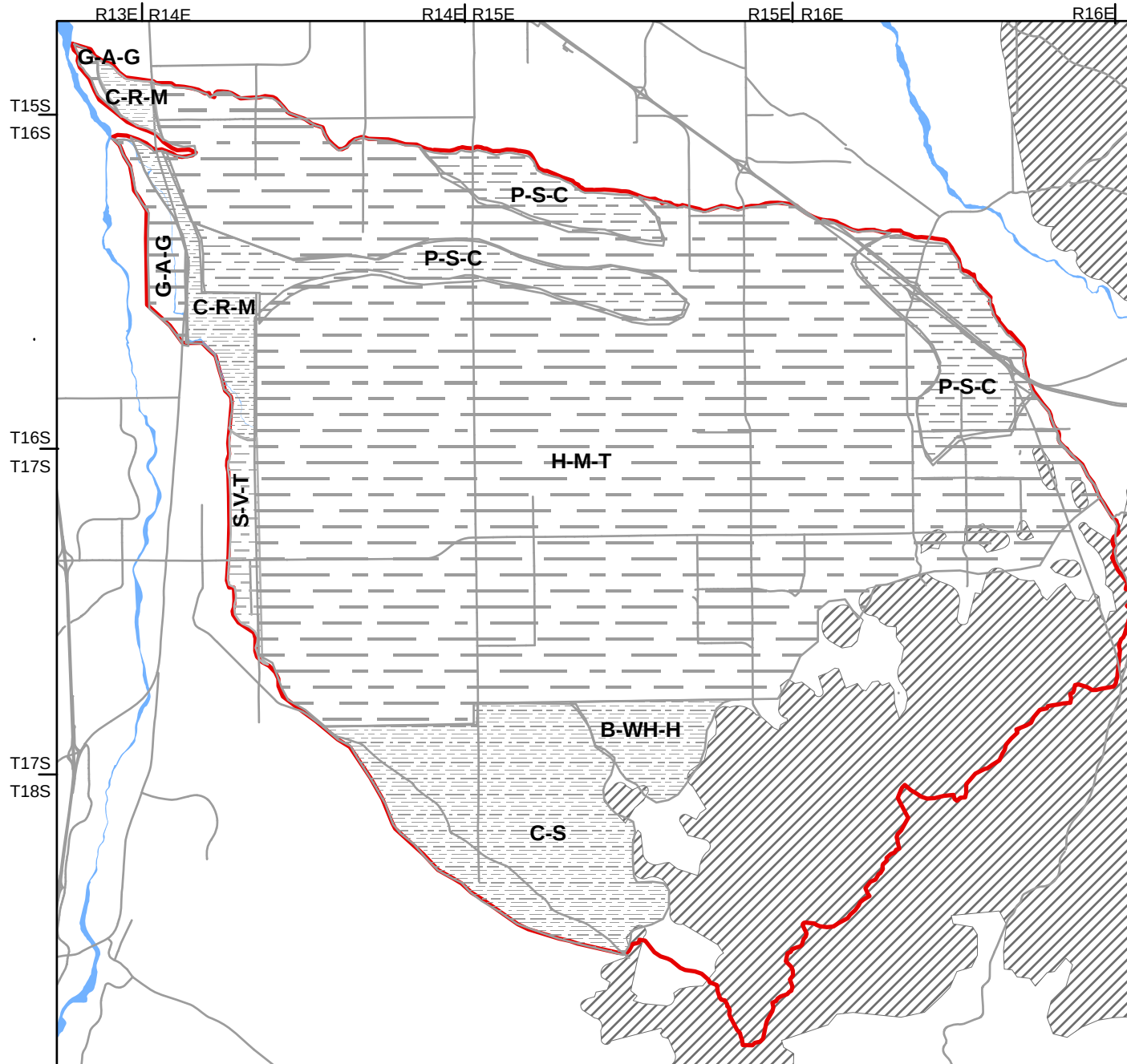
² Richardson, M.L., J.C. Clemmons, J.C. Walker, 1979. General Soil Map, Santa Cruz and Parts of Cochise and Pima Counties. U.S. Natural Resources Conservation Service.

³ Cochran, C.C. and M.L. Richardson, 2003. General Soil Map, Pima County, Arizona, Eastern Part. U.S. Natural Resources Conservation Service.



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**Lee Moore Study Area
Figure 3
Soil Association Permeability**

Legend

- Study Area
- Major Streets
- Major Washes
- Surface Bedrock

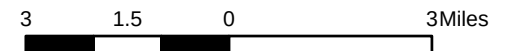


Generalized Soil Map Units

- H-M-T Hayhook-Mohave-Tubac
- P-S-C Pinaleno-Stagecoach-Cave
- B-WH-H Bernardino-White House-Hathaway
- C-S Continental-Sonoita
- C-R-M Cave-Rillito-Mohave
- G-A-G Grabe-Anthony-Gila
- S-V-T Sonoita-Valencia-Tubac

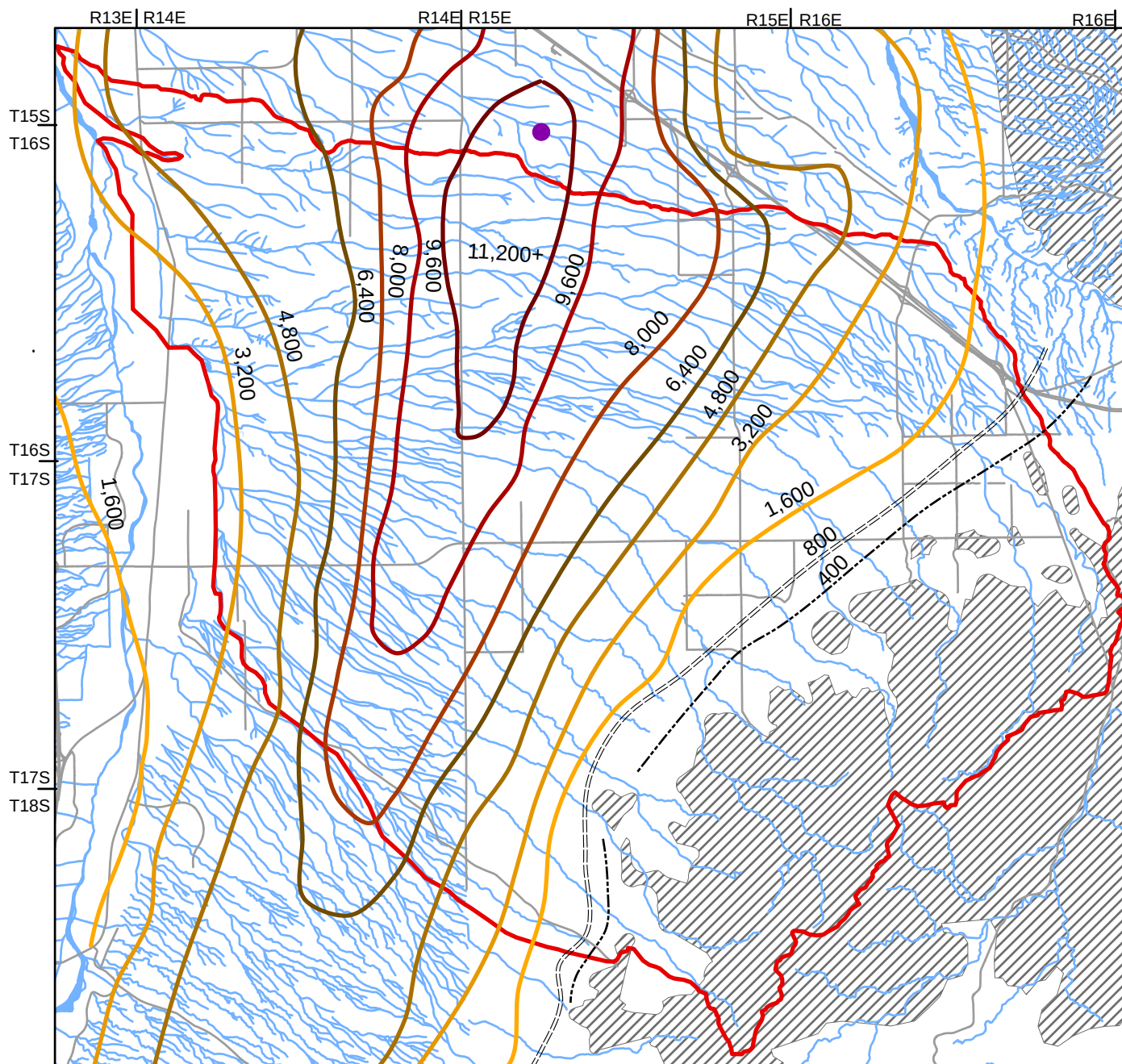
Permeability

- Moderately Rapid
- Moderate
- Moderately Slow



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Lee Moore Study Area
Figure 5
Depth to Bedrock

Legend

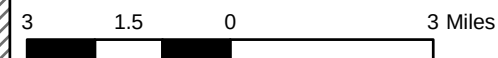
- Study Area
- Major Streets
- Washes
- Surface Bedrock
- Exxon (32)-1 Well



Depth to Bedrock
 (feet below ground surface)

- | | |
|--|--------|
| | 400 |
| | 800 |
| | 1600 |
| | 3200 |
| | 4800 |
| | 6400 |
| | 8000 |
| | 9600 |
| | 11200+ |

Adapted from:
 Oppenheimer, J.M. and J.S. Sumner, 1980.
 Depth-to-Bedrock Map, Basin and Range
 Province, Arizona.
 University of Arizona Geophysics Laboratory.



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Stantec

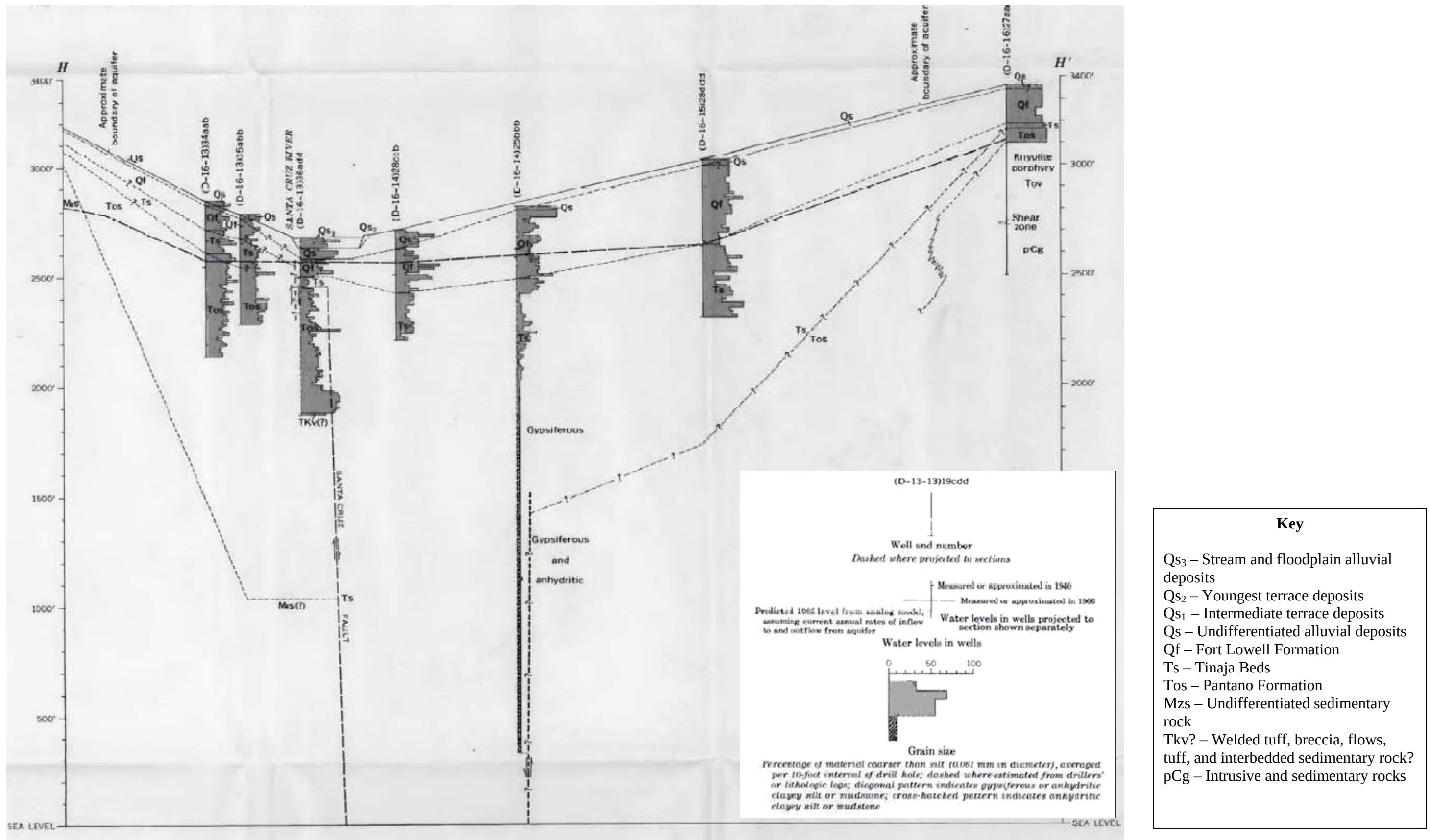
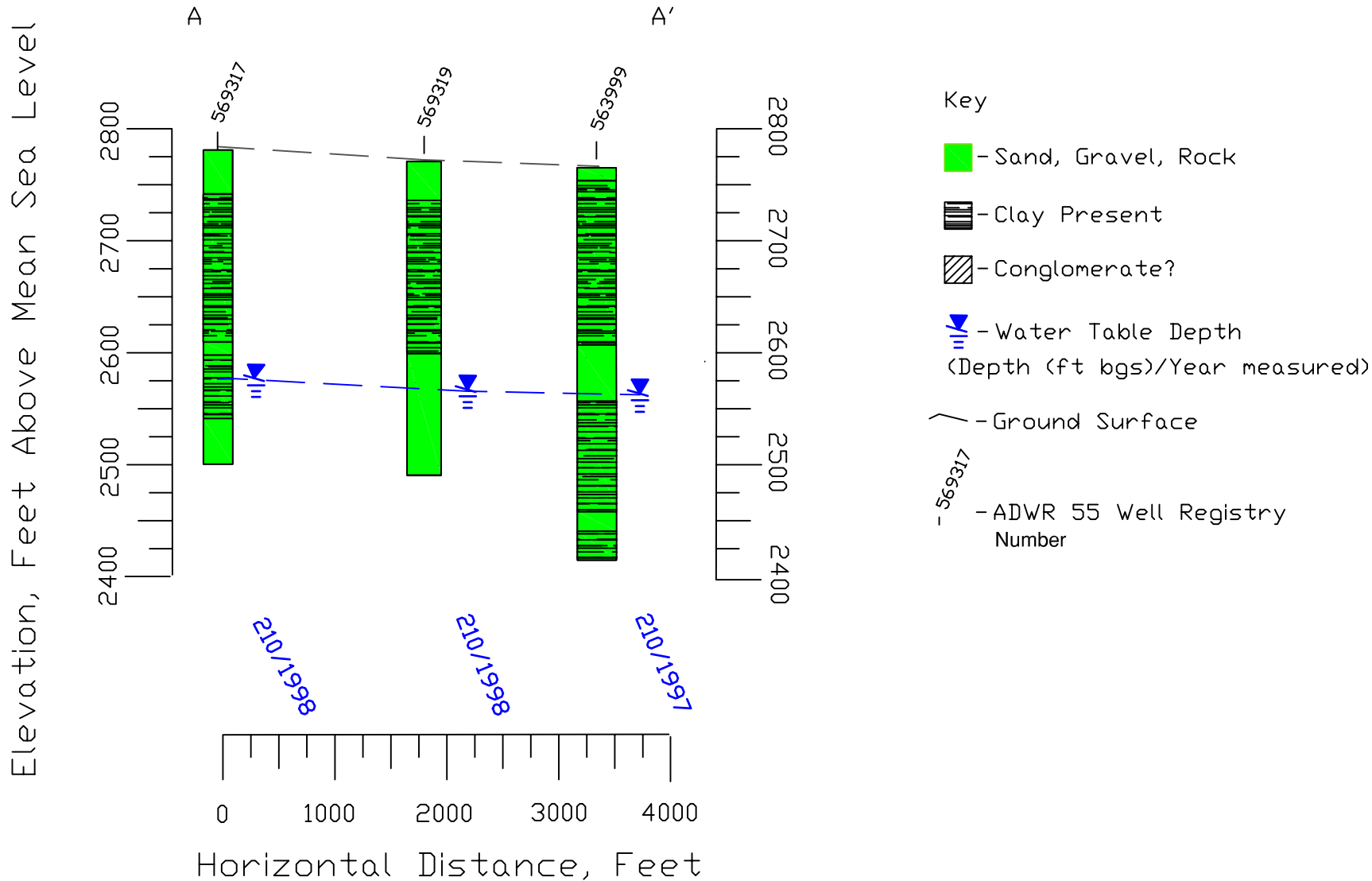


Figure 7 Well-Log-Based Hydrostratigraphic Cross-Section “H” from Davidson, E.S., 1973. Geohydrology and Water Resources of the Tucson Basin, Arizona. U.S. Geological Survey. Geological Survey Water-Supply Paper 1939-E.



CREATED: 1/2/2007

DRAWN: MB



REVISED: 1/5/2007

REVIEWED: MAM

FILE: Jobs\0618 Lee Moore Wash\Well Logs and Cross-Sections\Hydrostratigraphic Cross-Section, A-A'

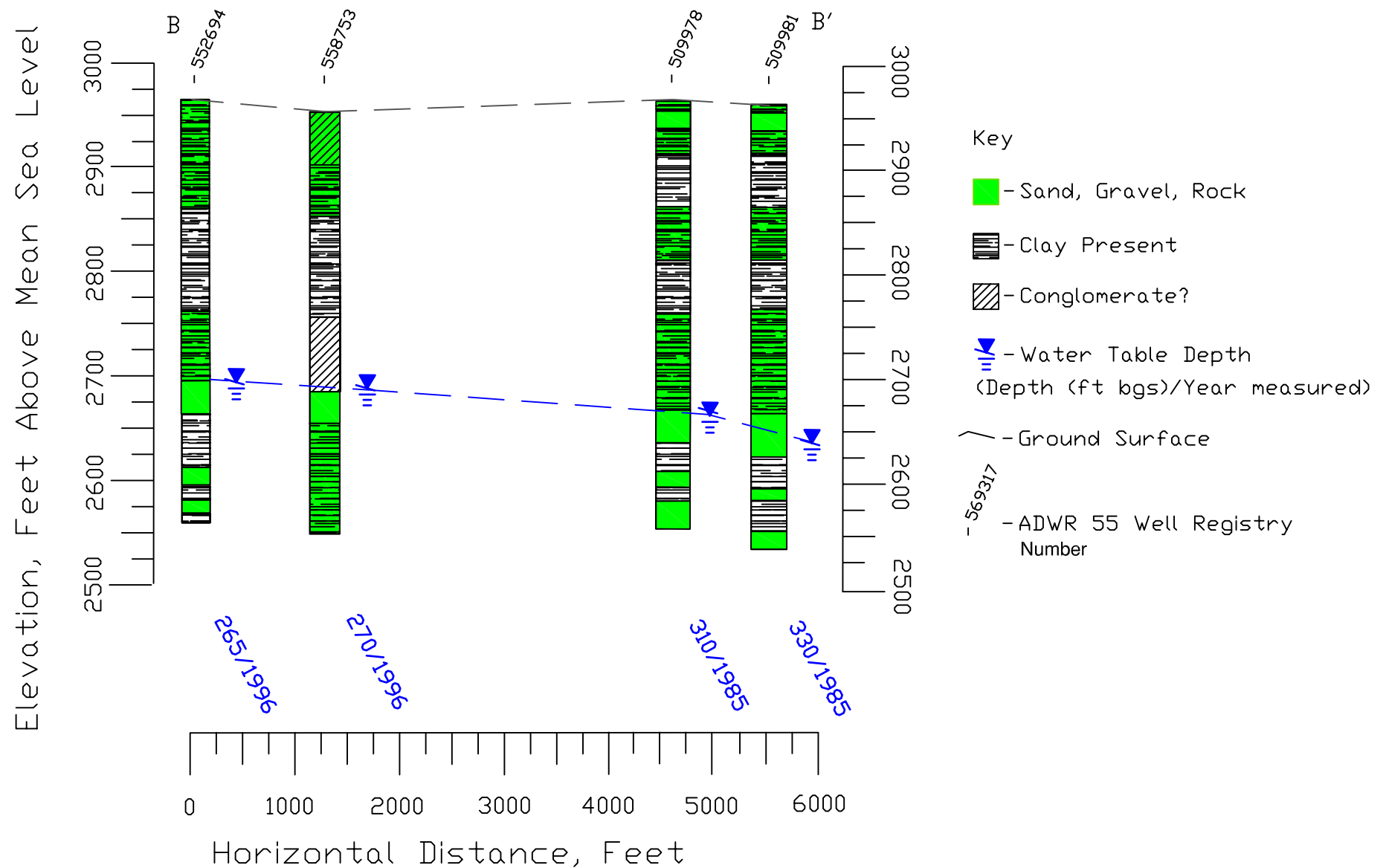
SCALE: As Noted



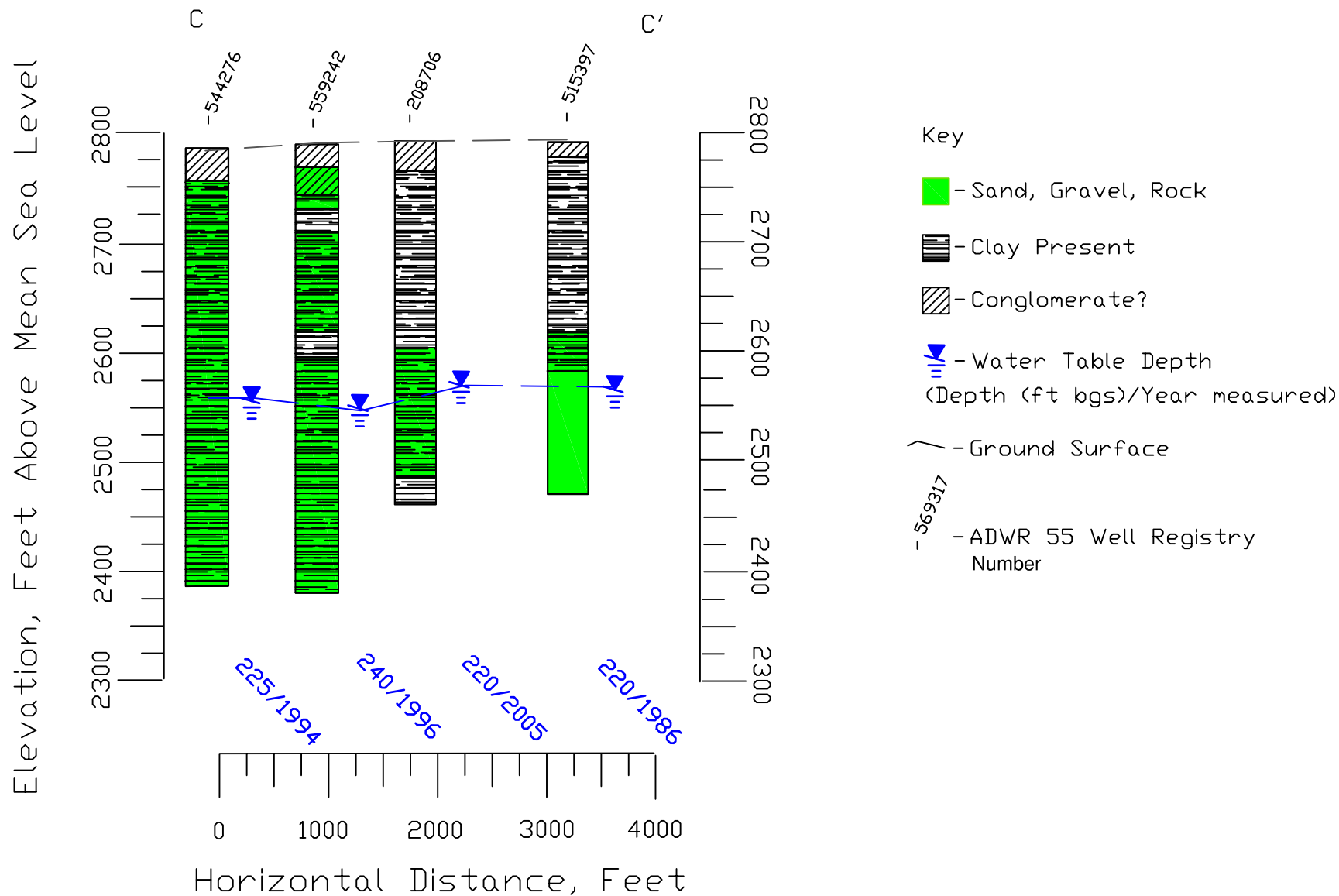
GeoSystems Analysis, Inc.

CLIENT/
PROJECT: Stantec/Lee Moore Study Area Hydrogeologic Review

TITLE: Figure 8
Hydrostratigraphic Cross-Section, A-A'



CREATED: 1/4/2007	DRAWN: MB	  GeoSystems Analysis, Inc.	CLIENT/ PROJECT: Stantec/Lee Moore Study Area Hydrogeologic Review
REVISED: 1/5/2007	REVIEWED: MAM		TITLE: Figure 9 Hydrostratigraphic Cross-Section, B-B'
FILE: Jobs\0618 Lee Moore Wash\Well Logs and Cross-Sections\Hydrostratigraphic Cross-Section, B-B'		SCALE: As Noted	



CREATED: 1/4/2007

DRAWN: MB



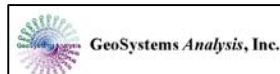
CLIENT/
PROJECT: Stantec/Lee Moore Study Area Hydrogeologic Review

REVISED: 1/5/2007

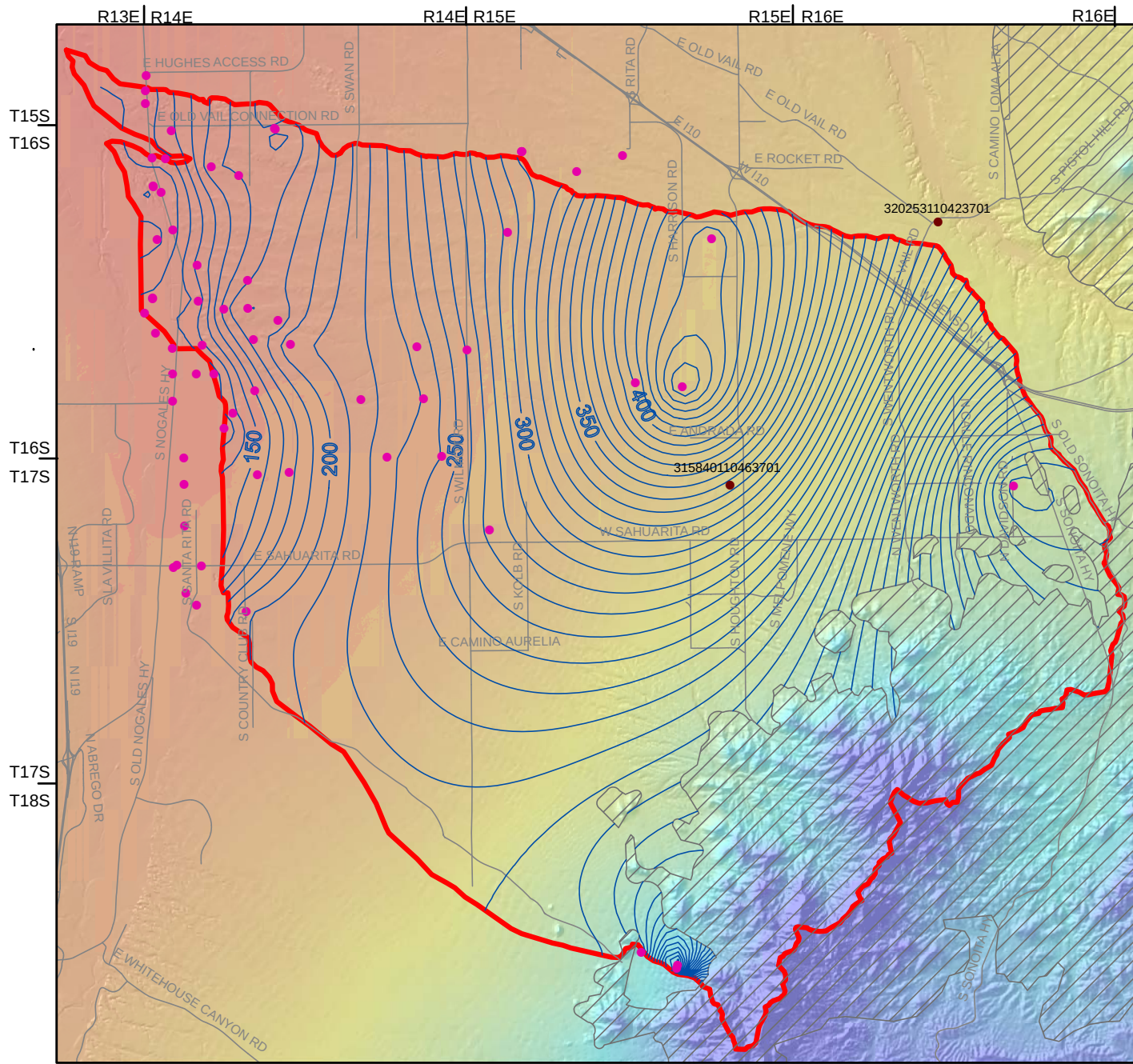
REVIEWED: MAM

FILE: Jobs\0618 Lee Moore Wash\Well Logs and
Cross-Sections\Hydrostratigraphic
Cross-Section C-C'

SCALE: As Noted



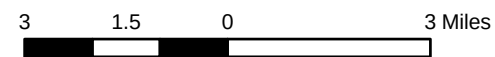
TITLE:
Figure 10
Hydrostratigraphic Cross-Section, C-C'



Lee Moore Study Area
Figure 11
Depth to Water, 1995-6
from ADWR GWSI Data
10-ft contour intervals

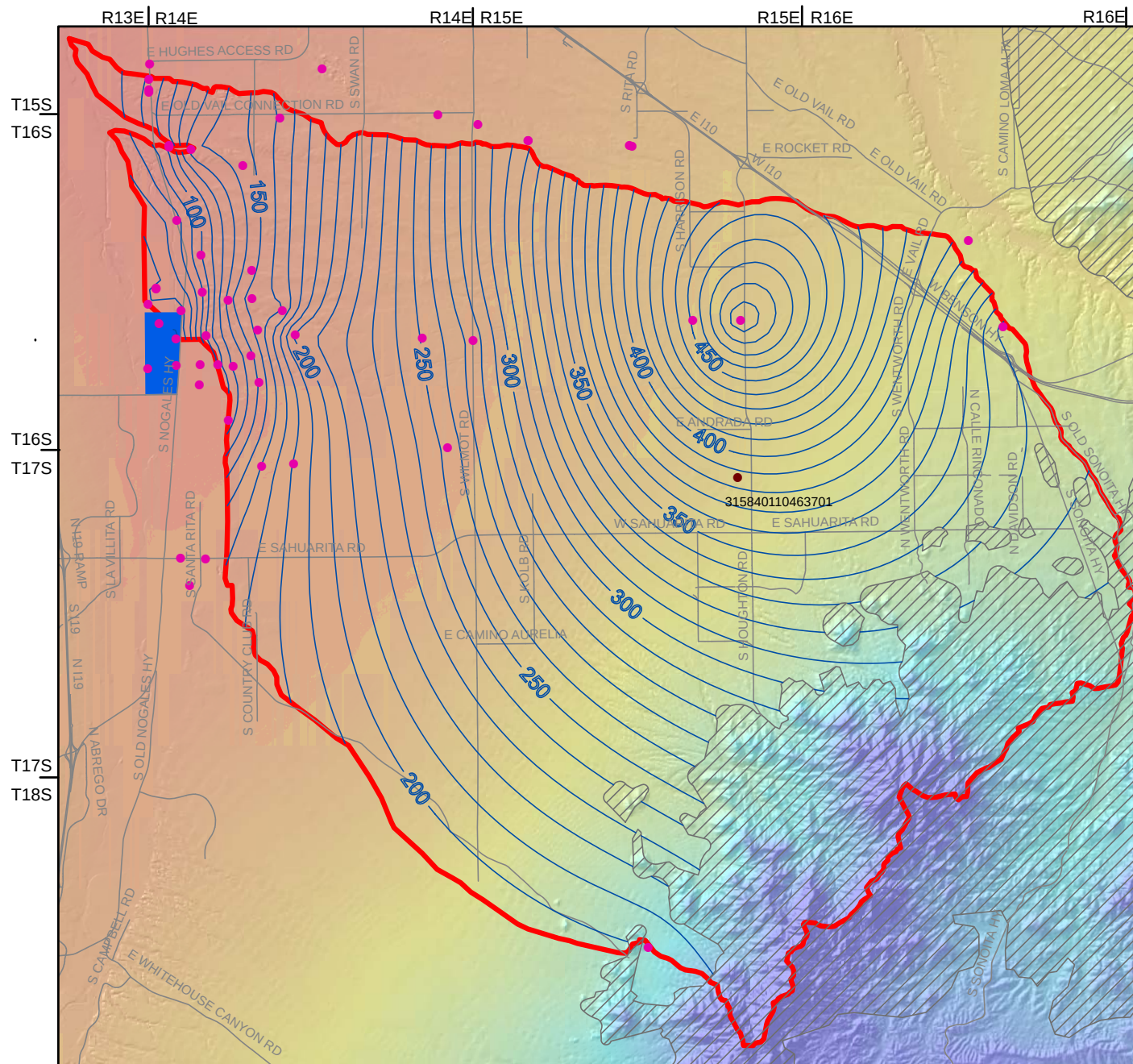
Legend

- Study Area
- Major Streets
- Surface Bedrock
- GWSI Wells with 1995-96 Water Levels
- Depth to Water 1995-6
- Ground Surface Elevation
(feet above mean sea level)
- High : 6632
- Low : 2445
- Wells with Water Levels approx. 555 ft bgs
- Removed from Groundwater Model



GeoSystems Analysis, Inc.



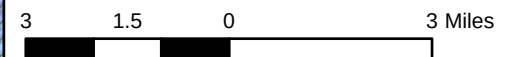


Lee Moore Study Area
Figure 12
Depth to Water, 2005-6
from ADWR GWSI Data
10-ft contour intervals



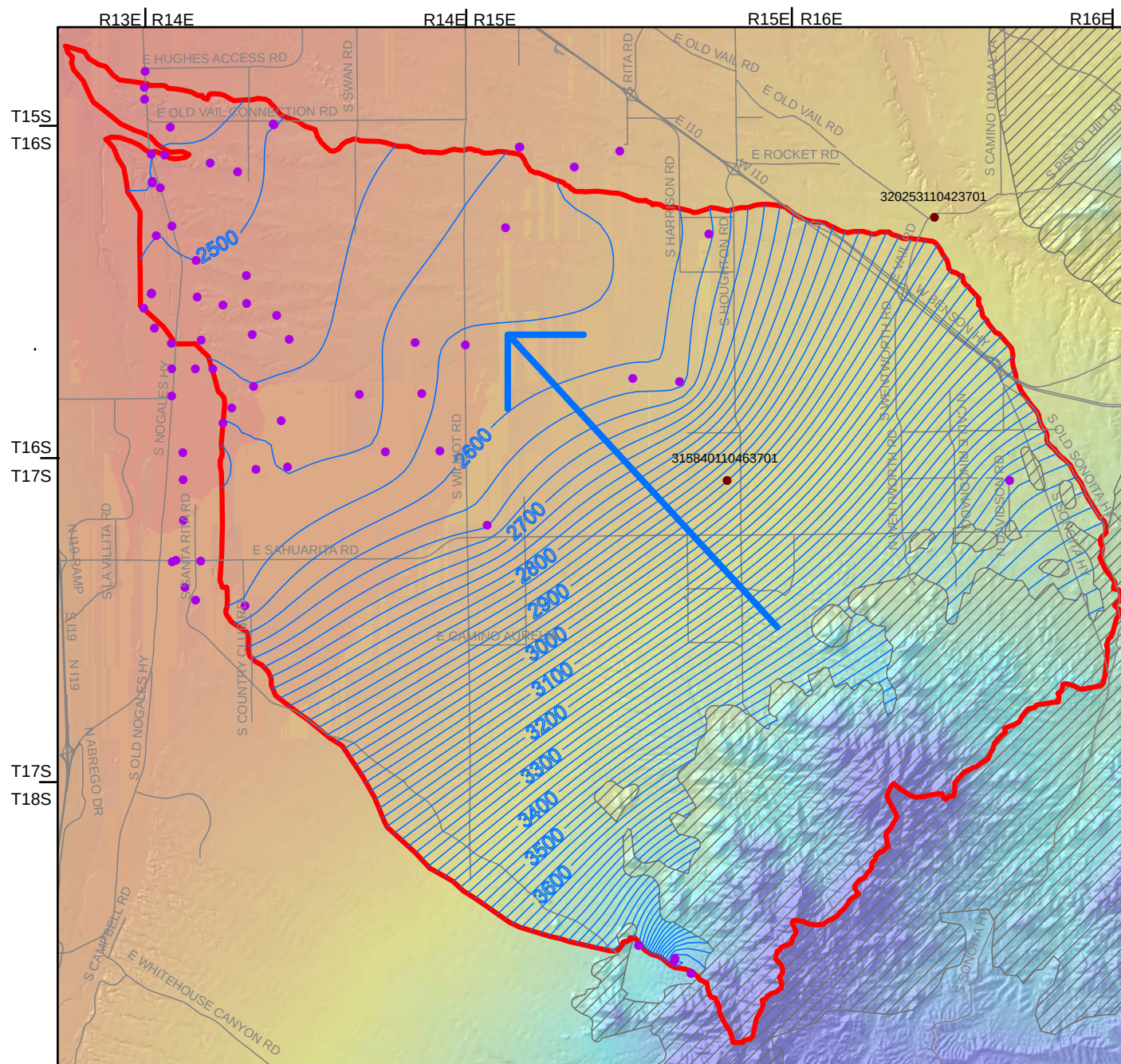
Legend

- Study Area
- Major Streets
- Surface Bedrock
- Pima Mine Road Recharge Project
- GWSI Wells with 2005-6 Water Levels
- Depth to Water 2005-6
- Ground Surface Elevation
(feet above mean sea level)
- High : 6632
- Low : 2445
- Well with Water Level approx. 555 ft bgs
Removed from Groundwater Model



GeoSystems Analysis, Inc.

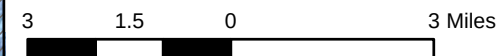




Lee Moore Study Area
Figure 13
Groundwater Elevation, 1995-6
from ADWR GWSI Data
25-ft contour intervals

Legend

- Study Area
- Major Streets
- Surface Bedrock
- GWSI Wells with Water Levels 1995-6
- Groundwater Elevation 1995-6
- Ground Surface Elevation
(feet above mean sea level)
- High : 6632
- Low : 2445
- ➔ Direction of Groundwater Flow
- Wells with Water Levels approx. 555 ft bgs
Removed from Groundwater Model



GeoSystems Analysis, Inc.



Stantec

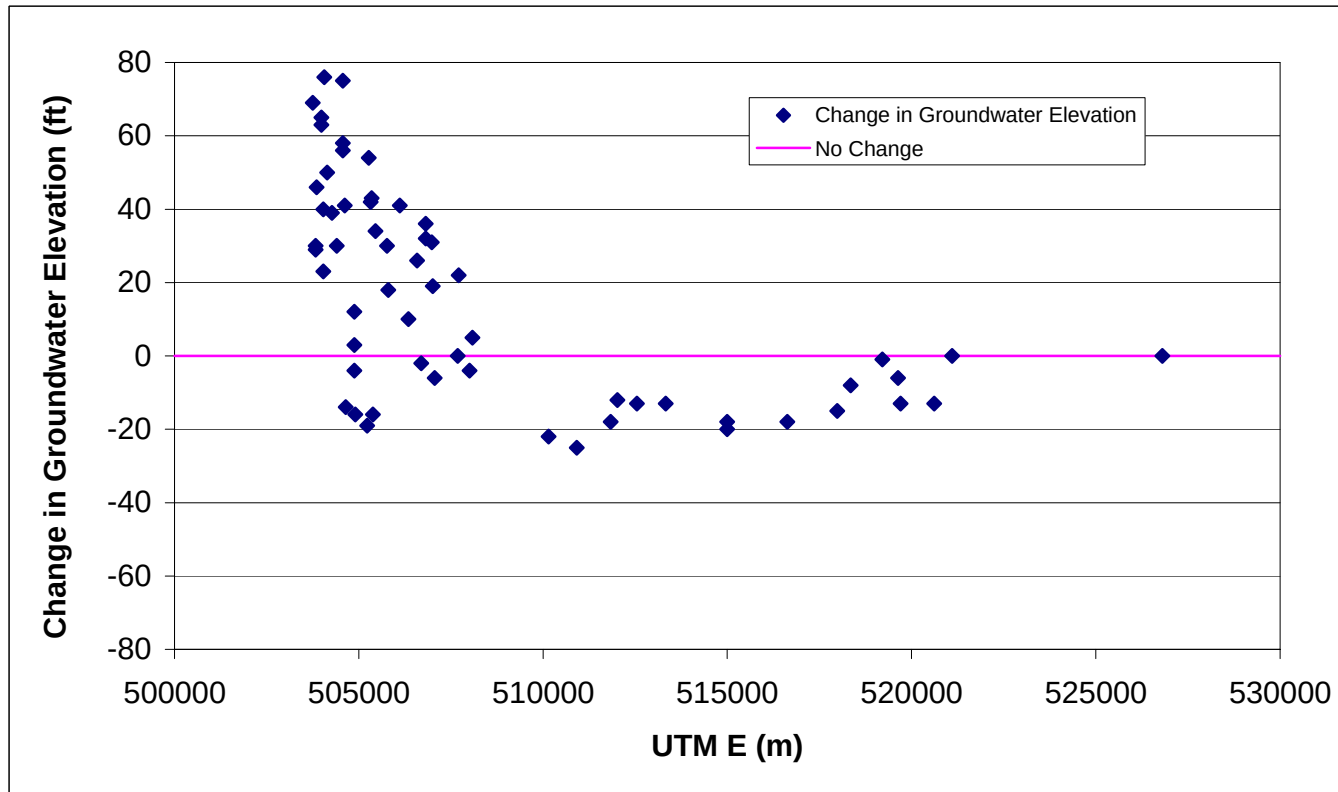


Figure 15. Change in Groundwater Elevation in GWSI Wells between 1995-6 and 2005-6

Appendix 1. ADWR-Registered Water Production Wells in the Study Area

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY	
633566	55	16	S	15	E	18				514160	3544852	EXEMPT	WATER PRO		STOCK				1/1/1920	400	280	STEEL - P	0	6			0	0	0	REES,F E		
635319	55	17	S	14	E	22	SE	SW	SE	509670	3532410	EXEMPT	WATER PRO		DOMESTIC				7/3/1926	350	0	OTHER - B	350	8			0	0	0	JONES, RO		
808842	55	17	S	16	E	30	NW	SE	NE	523863	3532449	EXEMPT	WATER PRO		STOCK				1/1/1930	60	35	OPEN HOLE	35	20			0	0	0	HAFERKAMP		
607827	55	16	S	14	E	20	SW	NW	SW	505406	3542525	EXEMPT	WATER PRO		DOMESTIC				1/1/1939	0	0	STEEL - P	0	4			0	0	0	ASARCO IN		
607816	55	16	S	14	E	20	SW	NW	SW	505406	3542525	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1939	442	0		0	14			0	0	0	ASARCO IN		
801203	55	16	S	14	E	6	SW	NW		503913	3547518	EXEMPT	WATER PRO		DOMESTIC				1/1/1940	0	0		0	0			34	34	0	LEVARIO		
800124	55	16	S	14	E	6	SW	SE		504306	3547070	EXEMPT	WATER PRO		DOMESTIC				6/12/1941	100	0	STEEL - P	0	6			0	0	0	FEDERICO,		
801317	55	17	S	14	E	35	SW	NE	SE	510884	3529570	EXEMPT	WATER PRO		DOMESTIC				1/1/1943	190	90	STEEL - P	200	8			32	32	0	FINA,C P		
607808	55	16	S	14	E	19	NW	SW	SE	504007	3542929	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1944	186	0		0	20			0	0	0	ASARCO IN		
605875	55	16	S	14	E	6	SW	SW	SE	504012	3546957	NON-EXEMP	WATER PRO		IRRIGATIO	DOMESTIC			1/1/1946	200	107	STEEL - P	2	16			50	50	0		ALTAN KOL	
607825	55	16	S	14	E	18	NW	SE	NW	504206	3544736	EXEMPT	WATER PRO		DOMESTIC				1/1/1947	0	0	STEEL - P	0	8			29	29	0	ASARCO IN		
607806	55	16	S	14	E	19	NW	NW	NE	504005	3543534	NON-EXEMP	WATER PRO	MONITOR	IRRIGATIO				1/1/1948	250	141		250	16			0	0	0	ASARCO IN		
607814	55	16	S	14	E	29	NW	SE	SW	505806	3541315	NON-EXEMP	WATER PRO	RECHARGE	IRRIGATIO				1/1/1948	350	149		0	16			0	0	0	ASARCO IN		
607810	55	16	S	14	E	18	NW	NE	SW	504207	3544936	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1949	185	116	STEEL - P	185	16			0	0	0	ASARCO IN		
607784	55	16	S	14	E	18	NW	SE	SW	504205	3544536	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1949	260	120	STEEL - P	260	20			0	0	0	ASARCO IN		
607782	55	16	S	14	E	7	SW	SE	SW	504214	3545337	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1951	230	121	STEEL - P	0	16			0	0	0	ASARCO IN		
607811	55	16	S	14	E	20	SW	SW	SW	505410	3542120	NON-EXEMP	WATER PRO	RECHARGE	IRRIGATIO				1/1/1951	447	169		0	16			0	0	0	ASARCO IN		
640427	55	15	S	14	E	31				504585	3549445	EXEMPT	WATER PRO		DOMESTIC				1/1/1952	150	140	STEEL - P	150	0			22	22	0	STOCK & S		
628439	55	16	S	14	E	18				504505	3544437	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1952	0	0	STEEL - P	0	12			1000	1000	0	CARRASCO,		
804845	55	16	S	14	E	6	SE	SW		504699	3547071	EXEMPT	WATER PRO		DOMESTIC				2/14/1952	250	147	OTHER - B	250	6			0	0	0	CASTILLO,		
607812	55	16	S	14	E	29	NE	SE	NE	506826	3541517	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1953	273	188	STEEL - P	0	16			0	0	0	ASARCO IN		
607819	55	16	S	14	E	29	NW	NE	SE	506016	3541718	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1954	200	0	STEEL - P	0	16			0	0	0	ASARCO IN		
619875	55	16	S	14	E	20	NE	SE	NE	506818	3543137	NON-EXEMP	WATER PRO		MUNICIPAL				7/1/1954	540	196	STEEL - P	540	16			373	373	0	TUCSON, C		
619880	55	15	S	14	E	31	SW	NW	NW	503880	3549347	NON-EXEMP	WATER PRO		MUNICIPAL				8/1/1954	625	130	STEEL - P	400	16			721	756	0		TUCSON, C	
619877	55	16	S	14	E	17	NW	SW	SW	505406	3544535	NON-EXEMP	WATER PRO		MUNICIPAL				8/1/1954	360	148	STEEL - P	360	16			7977	797	0	TUCSON, C		
619878	55	16	S	14	E	20	NE	SW	NW	506210	3543135	NON-EXEMP	WATER PRO	MONITOR	MUNICIPAL				8/1/1954	535	199	STEEL - P	535	16			298	298	0	TUCSON, C		
619879	55	16	S	14	E	7	NW	NE	SW	504210	3546544	NON-EXEMP	WATER PRO		MUNICIPAL				8/1/1954	575	131	STEEL - P	575	16			273	273	0	TUCSON, C		
619882	55	16	S	14	E	20	NW	NW	NW	505395	3543535	NON-EXEMP	WATER PRO	MONITOR	MUNICIPAL				9/1/1954	403	160	STEEL - P	403	16			356	356	0	TUCSON, C		
619876	55	16	S	14	E	17	SE	NE	SE	506813	3544146	NON-EXEMP	WATER PRO		MUNICIPAL				10/1/1954	460	191	STEEL - P	460	16			0	0	0	TUCSON, C		
607813	55	16	S	14	E	29	NE	SW	SW	506211	3541316	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1955	280	162	STEEL - P	0	16			0	0	0	ASARCO IN		
607804	55	16	S	14	E	19	NE	SW	SE	504803	3542929	NON-EXEMP	WATER PRO	MONITOR	IRRIGATIO				1/1/1956	375	129		0	18			0	0	0	ASARCO IN		
801279	55	17	S	15	E	13	NW	SE	SW	522049	3535445	EXEMPT	WATER PRO		IRRIGATIO				9/1/1956	947	641		0	0			0	0	0	ABRAMS		
607805	55	16	S	14	E	19	NW	SW	NW	503807	3543131	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1957	300	136		0	0			0	0	0	ASARCO IN		
625704	55	16	S	16	E	27	NE	NW	NE	528915	3542330	NON-EXEMP	WATER PRO		DOMESTIC				7/29/1959	847	371	STEEL - P	825	12			70	70	0		VAIL WATE	
801164	55	16	S	14	E	6	NW	SE	NW	504209	3548078	EXEMPT	WATER PRO		DOMESTIC				1/1/1960	201	114	STEEL - P	185	8			35	35	0	DENBO, JO		
635391	55	17	S	14	E	28	SE	NE		508361	3531294	EXEMPT	WATER PRO		STOCK				1/1/1960	0	0		0	0			0	0	0	LEUNG LAW		
638512	55	17	S	15	E	6	NE	NE	SW	514780	3538937	EXEMPT	WATER PRO		STOCK	DOMESTIC			1/1/1960	325	280	STEEL - P	100	8			15	15	0	GASHO, AL		
619883	55	16	S	14	E	6	NE	NW	NW	504606	3548524	NON-EXEMP	WATER PRO		MUNICIPAL				6/1/1960	536	175	STEEL - P	536	16			669	501	0		TUCSON, C	
631104	55	16	S	14	E	7	SE	SW		504714	3545436	EXEMPT	WATER PRO		DOMESTIC				8/15/1960	182	170	STEEL - P	180	8			35	35	0	AROS,A R		
805277	55	16	S	14	E	6	NW	SE		504308	3547965	EXEMPT	WATER PRO		DOMESTIC				12/31/1960	0	0	STEEL - P	0	8			0	0	0	HOWLETT,		
607826	55	16	S	14	E	29	NE	NE	NE	506836	3541919	EXEMPT	WATER PRO		DOMESTIC				1/1/1962	550	186	STEEL - P	0	16			30	30	0	ASARCO IN		
619887	55	16	S	14	E	7	SE	SW	NW	504613	3545537	NON-EXEMP	WATER PRO		MUNICIPAL				6/1/1962	705	128	STEEL - P	705	16			427	427	0	TUCSON, C		
619885	55	15	S	14	E	31	NW	SW	NW	503881	3549751	NON-EXEMP	WATER PRO		MUNICIPAL				7/1/1962	550	127	STEEL - P	550	16			430	703	0		TUCSON, C	
603841	55	16	S	14	E	19	NE	SE	SE	505200	3542928	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1963	401	178	STEEL - P	400	16			750	0	0	GALLEGO		
801312	55	16	S	14	E	18	NE	NE		505111	3545033	NON-EXEMP	WATER PRO		DOMESTIC				1/1/1963	285	200	STEEL - P	200	4			67	67	0	SOTO		
621643	55	16	S	14	E	6	NW	SE		504308	3547965	NON-EXEMP	WATER PRO		IRRIGATIO	DOMESTIC			1/1/1963	0	0		0	8			0	0	0	MAHAN,L S		
619865	55	16	S	15	E	34	NE	NE	NE	519682	3540722	NON-EXEMP	WATER PRO		MUNICIPAL				1/1/1963	703	461	STEEL - P	703	12			425	425	0	TUCSON, C		
619889	55	16	S	14	E	4	NW	NE	NE	507626	3548538	NON-EXEMP	WATER PRO		MUNICIPAL				11/1/1963	540	149	STEEL - P	540	16			0	0	0	TUCSON, C		
616071	55	16	S	15	E	27	SW	SW	SW	518210	3540914	NON-EXEMP	WATER PRO		IRRIGATIO	MUNICIPAL			12/31/1963	840	575	STEEL - P	840	12			450	450	0	AZ STATE		
801127	55	16	S	14	E	19	NE	SE	SE	505200	3542928	NON-EXEMP	WATER PRO		IRRIGATIO				1/1/1964	400	156	STEEL - P	400	16			800	800	0	SEDGWICK		
619893	55	16	S	14	E	25	NW	NW	NW	511850	3541908	NON-EXEMP	WATER PRO		MUNICIPAL				1/1/1964	850	224	STEEL - P	850	16			288	288	0	TUCSON, C		
619888	55	16	S	14	E	21	SE	NW	NW	507826	3542732	NON-EXEMP	WATER PRO		MUNICIPAL				2/1/1964	650	193	STEEL - P	650	16			491	491	0	TUCSON, C		
619890	55	16	S	14	E	6	NW	NW	NE	504012	3548527	NON-EXEMP	WATER PRO		MUNICIPAL				3/1/1964	845	123	STEEL - P	845	16			343	425	0		TUCSON, C	
807502	55	17	S																													

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY
640318	55	17 S	14 E	14	E	22	SE	SW	NW	509468	3532611	EXEMPT	WATER PRO		DOMESTIC					1/1/1970	325	225 STEEL - P	325	8			5	5	0	PALLANES,	
635158	55	17 S	14 E	14	E	22	NW	NW		508756	3533719	EXEMPT	WATER PRO		DOMESTIC	STOCK			1/1/1970	355	184 STEEL - P	355	6			20	20	0	RODRIGUEZ		
636867	55	17 S	14 E	17						506110	3534747	EXEMPT	WATER PRO		DOMESTIC				4/16/1970	260	130 STEEL - P	260	6			30	30	0	ROSSON,V		
621048	55	17 S	14 E	22	NE		SE	NW		509866	3533414	EXEMPT	WATER PRO		IRRIGATIO	STOCK			8/25/1970	325	125 STEEL - P	320	8			32	32	0	PARRISH,L		
631732	55	16 S	14 E	6	SW		SE	SE		504404	3546958	NON-EXEMP	WATER PRO		DOMESTIC				9/1/1970	255	146 STEEL - P	189	10			210	210	0	CORNEA ET		
635113	55	16 S	14 E	6	NW		SE	NW		504209	3548078	EXEMPT	WATER PRO		DOMESTIC				11/1/1970	245	110 STEEL - P	225	8			25	25	0	LINTON,R		
621257	55	17 S	14 E	21	NW		SW	NE		507242	3533433	EXEMPT	WATER PRO		DOMESTIC				12/17/1970	325	205 STEEL - P	325	6			30	30	0	DAVIS,R A		
634610	55	17 S	14 E	17	SE		NE	NE		506822	3534647	EXEMPT	WATER PRO		DOMESTIC				1/1/1971	0	0 STEEL - P	0	6			27	27	0	ACEDO,S C		
611985	55	17 S	14 E	17	SE		SE	NW		506628	3534244	EXEMPT	WATER PRO		DOMESTIC				1/1/1971	280	180 STEEL - P	0	6			11	11	0	ATKISSON		
634828	55	17 S	14 E	21	NE		SW	SE		508052	3533222	EXEMPT	WATER PRO		DOMESTIC				1/1/1971	350	110 OTHER - B	0	6			0	0	0	MCDIVITT		
640262	55	17 S	14 E	22	NW		NW	NW		508756	3533719	EXEMPT	WATER PRO		DOMESTIC				1/1/1971	325	140 STEEL - P	325	8			0	0	0	MARKER,R		
619899	55	16 S	14 E	25	SE		SE	SE		513271	3540503	NON-EXEMP	WATER PRO		MUNICIPAL				4/1/1971	1000	243 STEEL - P	1000	16			484	484	0	TUCSON, C		
634361	55	17 S	14 E	17						506110	3534747	EXEMPT	WATER PRO		DOMESTIC				5/1/1971	270	178 STEEL - P	0	6			0	0	0	GREEN,G E		
633567	55	16 S	14 E	5	SW		NW	SE		505594	3547409	EXEMPT	WATER PRO		DOMESTIC				6/1/1971	308	145 STEEL - P	300	8			0	0	0	EPPERSON		
635884	55	17 S	14 E	17	SE		NE	SE		506826	3534446	EXEMPT	WATER PRO		DOMESTIC				7/15/1971	269	182 OTHER - B	269	6			30	30	0	ROSSON,J		
804903	55	17 S	14 E	22	NE		SW	SE		509666	3533214	EXEMPT	WATER PRO		DOMESTIC				7/31/1971	320	210	0	8			21	0	0	RIGLI, PA		
634808	55	17 S	14 E	22	NW		SW			508759	3533316	EXEMPT	WATER PRO		DOMESTIC				8/1/1971	320	100 OTHER - B	0	6			0	0	0	CLABOUGH,		
800365	55	17 S	14 E	22	SW		NW	SE		508862	3532814	EXEMPT	WATER PRO		STOCK	DOMESTIC			8/28/1971	325	50 STEEL - P	325	6			30	30	0	VANDIVER,		
806457	55	17 S	14 E	21	NW		SW	NE		507242	3533433	EXEMPT	WATER PRO		DOMESTIC				12/31/1971	300	194 STEEL - P	300	6			20	0	0	HAAG, ALB		
806813	55	18 S	15 E	14	NE		NE	SW		521263	3526229	NON-EXEMP	WATER PRO		MINING	DOMESTIC			12/31/1971	250	10 STEEL - P	100	8			60	0	0	SPECIALTY		
808364	55	17 S	14 E	17	NE		NW	NE		506400	3535451	EXEMPT	WATER PRO		DOMESTIC				1/1/1972	0	0	0	0			0	0	0	MILLER		
631677	55	17 S	14 E	17	NE		NW	SE		506404	3535250	EXEMPT	WATER PRO		DOMESTIC				1/1/1972	270	170 STEEL - P	270	6			16	16	0	LOVE,J D		
804566	55	17 S	14 E	17	NE		NE	SE		506810	3535249	EXEMPT	WATER PRO		DOMESTIC				1/1/1972	250	180 STEEL - P	0	6			3	0	0	ONGLEY, E		
804005	55	17 S	14 E	22	SE		NW	NW		509465	3533013	EXEMPT	WATER PRO		DOMESTIC				1/1/1972	0	0 OTHER - B	350	6			20	0	0	HOWE, JOS		
638558	55	17 S	14 E	22	SE		NW	SW		509466	3532812	EXEMPT	WATER PRO		DOMESTIC				1/27/1972	325	0 STEEL - P	325	8			26	26	0	PETERSEN,		
801198	55	17 S	14 E	22	SE		NW	SW		509466	3532812	EXEMPT	WATER PRO		DOMESTIC				2/10/1972	325	200 STEEL - P	325	8			26	26	0	COLGATE,M		
633207	55	17 S	14 E	21	NE		SW	SE		508052	3533222	EXEMPT	WATER PRO		DOMESTIC				4/1/1972	300	190 STEEL - P	300	8			12	12	0	MEDEARIS,		
627079	55	17 S	14 E	22	NW		NW	NE		508856	3533819	NON-EXEMP	WATER PRO		IRRIGATIO	DOMESTIC	STOCK		4/5/1972	340	195 STEEL - P	340	8			75	75	0	CORX,W R		
801399	55	17 S	14 E	17	NE		SE			506714	3534948	EXEMPT	WATER PRO		DOMESTIC				7/15/1972	175	0 STEEL - P	0	6			34	34	0	TINGLE,H		
639907	55	17 S	14 E	17						506110	3534747	EXEMPT	WATER PRO		DOMESTIC				8/1/1972	270	180 STEEL - P	0	6			15	15	0	WAGNER JR		
640252	55	17 S	14 E	17	SE		SE	SW		506632	3534043	EXEMPT	WATER PRO		DOMESTIC				8/21/1972	285	70 STEEL - P	285	6			28	28	0	DRYSDALE,		
619900	55	16 S	14 E	25	SW		SW	SW		511846	3540495	NON-EXEMP	WATER PRO		MUNICIPAL				11/1/1972	880	218 STEEL - P	880	16			421	544	0		TUCSON, C	
619901	55	16 S	14 E	26	SW		SW	SW		510231	3540501	NON-EXEMP	WATER PRO		MUNICIPAL				12/1/1972	700	231 STEEL - P	700	16			313	279	0		TUCSON, C	
801882	55	17 S	14 E	17	NE		NE	NW		506603	3535451	EXEMPT	WATER PRO		DOMESTIC				1/1/1973	270	150 STEEL - P	270	6			20	0	0	KELLEY,C		
619903	55	17 S	14 E	2	NW		NE	NE		510849	3538697	NON-EXEMP	WATER PRO		MUNICIPAL				1/1/1973	624	241 STEEL - P	624	16			467	362	0		TUCSON, C	
619904	55	17 S	14 E	1	NW		NE	NE		512465	3538684	NON-EXEMP	WATER PRO		MUNICIPAL				1/1/1973	800	232 STEEL - P	800	16			0	0	0	TUCSON, C		
640050	55	17 S	14 E	17	NE		NE	SW		506607	3535250	EXEMPT	WATER PRO		DOMESTIC				3/1/1973	270	180 STEEL - P	0	6			17	17	0	HALEY & W		
640107	55	17 S	14 E	17	NE		NE			506706	3535350	EXEMPT	WATER PRO		DOMESTIC				3/15/1973	280	150 STEEL - P	180	6			19	19	0	LUCKOW,F		
619905	55	16 S	14 E	25	NE		NE	NE		513261	3541904	NON-EXEMP	WATER PRO		MUNICIPAL				6/1/1973	791	253 STEEL - P	791	16			504	590	0		TUCSON, C	
638115	55	17 S	14 E	22	NE		SW	NE		509664	3533415	EXEMPT	WATER PRO		DOMESTIC	STOCK			7/1/1973	315	215 STEEL - P	0	6			0	0	0	WILLIAMS,		
804596	55	17 S	14 E	22	SE		NW	NW		509465	3533013	EXEMPT	WATER PRO		DOMESTIC				10/1/1973	372	0	0	0			25	0	0	COX, LEE		
801297	55	17 S	14 E	22	NW		SE	NE		509261	3533416	EXEMPT	WATER PRO		DOMESTIC				12/7/1973	280	280 STEEL - P	270	6			16	16	0	OHNESORGE		
636096	55	17 S	14 E	17	NE		NE	NW		506603	3535451	EXEMPT	WATER PRO		DOMESTIC				1/1/1974	287	148 STEEL - P	250	6			31	31	0	ACKERMAN,		
635746	55	17 S	14 E	17	SE		SE	NE		506830	3534245	EXEMPT	WATER PRO		DOMESTIC				1/1/1974	272	190 STEEL - P	272	6			20	20	0	PETERSON,		
640048	55	17 S	14 E	22						509364	3533114	EXEMPT	WATER PRO		DOMESTIC				1/1/1974	325	180 STEEL - P	300	6			1	1	0	PACHECO,F		
801183	55	17 S	14 E	17	NE		SE	SW		506615	3534847	EXEMPT	WATER PRO		DOMESTIC				5/15/1974	275	165 STEEL - P	275	6			35	35	0	KENNEDY,M		
629698	55	17 S	14 E	17	NE		NE	NE		506805	3535450	EXEMPT	WATER PRO		DOMESTIC				7/15/1974	270	170 STEEL - P	220	6			25	25	0	SHUMWAY		
801808	55	17 S	14 E	17	NE		NE	SW		506607	3535250	EXEMPT	WATER PRO		DOMESTIC				9/14/1974	275	175 STEEL - P	275	6			13	13	0	VAN POLEN		
638017	55	16 S	14 E	6	SE		SW			504699	3547071	EXEMPT	WATER PRO		DOMESTIC				1/1/1975	250	140 STEEL - P	250	8			0	0	0	CASTILLO,		
640052	55	17 S	14 E	21	NE		SW	NE		508051	3533423	EXEMPT	WATER PRO		DOMESTIC				3/1/1975	300	200 STEEL - P	300	8			15	15	0	HOWARD ET		
639307	55	17 S	14 E	21	NE		SW	NE		508051	3533423	EXEMPT	WATER PRO		DOMESTIC				3/1/1975	300	200 STEEL - P	300	8			15	15	0	WILLIAMS,		
601910	55	17 S	14 E	22	SE		SE	NW		509871	3532610	EXEMPT	WATER PRO		DOMESTIC	STOCK			3/30/1975	370	250 STEEL - P	375	8			53	53	0	SAVILLE		
633568	55	15 S	14 E	31	SW		NW	SW		503879	3549145	EXEMPT	WATER PRO		DOMESTIC				1/1/1976	260	0 STEEL - P	260	8			0	0	0	DENBO, JO		
631163	55	15 S	14 E	31						504585	3549445	EXEMPT	WATER PRO		DOMESTIC				1/1/1976	260	135 OTHER - B	260	8			0	0	0	DENBO, JO		
602247	55	17 S	14 E	22	SE		SE	SW		509872	3532409	EXEMPT	WATER PRO																		

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY	
805420	55	18 S	15 E	22	SW	NW	NW	NW	NW	518414	3524031	EXEMPT	WATER PRO		DOMESTIC					1/30/1978	500	0 STEEL - P	40	40	6	TURBINE	ELECTRIC	1	1	600	HAWKINS,	
639986	55	17 S	14 E	17	NE	SW	NW	NW	NW	506206	3535049	EXEMPT	WATER PRO		DOMESTIC					5/2/1978	320	185 STEEL - P	320	6			23	23	0	HOWARD,H		
635071	55	17 S	15 E	6	NE	SE	NW			514780	3538757	EXEMPT	WATER PRO		DOMESTIC	STOCK			6/23/1978	345	295 STEEL - P	345	6			8	0	0	GASHO FML			
632039	55	17 S	14 E	22	NW	SW	SW	SW	SW	508658	3533216	EXEMPT	WATER PRO		DOMESTIC					1/1/1979	380	209 STEEL - P	380	8			23	23	0	FENN ET A		
634044	55	17 S	14 E	17	SE	SE	SW			506632	3534043	EXEMPT	WATER PRO		DOMESTIC					1/4/1979	281	181 STEEL - P	281	6			0	0	0	LOPEZ ET		
629283	55	17 S	16 E	10	NE	NW	NW			528849	3537693	EXEMPT	WATER PRO		DOMESTIC					2/23/1979	825	120 STEEL - P	480	6			10	10	0	SANTA RIT		
629284	55	17 S	16 E	10	NE	NW	NW			528849	3537693	EXEMPT	WATER PRO		DOMESTIC					2/28/1979	525	120 STEEL - P	480	6			10	10	0	SANTA RIT		
618633	55	16 S	14 E	18	NE	SE	SW			505004	3544534	NON-EXEMP	WATER PRO		DOMESTIC					8/9/1979	350	140 STEEL - P	350	12			93	93	0	BOICE, F.		
601402	55	17 S	14 E	22	SW	NW	NW			508659	3533015	EXEMPT	WATER PRO		DOMESTIC					8/30/1979	324	240 STEEL - P	300	6			24	0	0	POPPINO,		
620415	55	17 S	16 E	10	NE	NW	NW			528849	3537693	EXEMPT	WATER PRO		DOMESTIC					9/28/1979	600	225 STEEL - P	600	6			11	11	0	VALLEY WA		
635041	55	17 S	16 E	3						528746	3538501	EXEMPT	WATER PRO		DOMESTIC					10/12/1979	450	0 PLASTIC O	440	6			0	0	0	SHELTON,P		
634449	55	17 S	16 E	3	SE	NW	NW			528846	3538414	EXEMPT	WATER PRO		DOMESTIC					10/24/1979	705	0 PLASTIC O	705	4			0	0	0	PETZOLD,T		
638023	55	17 S	14 E	21	NW	NW	NE			507241	3533839	EXEMPT	WATER PRO		DOMESTIC	IRRIGATIO				10/31/1979	300	200 STEEL - P	300	8			24	24	0	JOOS,C O		
634945	55	17 S	14 E	17						506110	3534747	EXEMPT	WATER PRO		DOMESTIC					11/1/1979	277	100 STEEL - P	0	6			25	25	0	NICHOLS		
801679	55	16 S	14 E	5	SE	SE	NW			506598	3547193	EXEMPT	WATER PRO		UTILITY (			1/21/1980	12/1/1979	300	165 STEEL - P	300	8	SUBMERSIB	ELECTRIC	35	65	35	SUMMIT WA			
806463	55	16 S	16 E	21	NW	SE	SW			526694	3543329	EXEMPT	WATER PRO		NONE					12/31/1979	200	0 STEEL - P	200	6			0	0	0	AZ STATE		
807270	55	17 S	14 E	21	NW	NW	SE			507242	3533636	EXEMPT	WATER PRO		DOMESTIC					12/31/1979	330	290 STEEL - P	100	6			28	0	0	WIK, JOSE		
638718	55	16 S	14 E	5	SE	SE	NW			506598	3547193	EXEMPT	WATER PRO		UTILITY (					1/1/1980	350	175 STEEL - P	0	6			0	0	0	SUMMIT WA		
638957	55	17 S	14 E	21	NW	NE	SE			507646	3533630	EXEMPT	WATER PRO		DOMESTIC					4/15/1980	350	150 STEEL - P	350	6			30	30	0	ROSSON SR		
805255	55	17 S	14 E	21	NW	NE	SW			507444	3533633	EXEMPT	WATER PRO		DOMESTIC					6/1/1980	380	180 STEEL - P	350	6			0	0	0	MCMILLAN,		
602294	55	16 S	14 E	6	SE	SE	SW			504994	3546960	EXEMPT	WATER PRO		DOMESTIC					8/17/1980	206	100 STEEL - P	200	8			18	0	0	DURAN,A E		
086092	55	17 S	14 E	22	SW	NW	NW			508659	3533015	EXEMPT	WATER PRO		DOMESTIC					11/12/1980	320	210 STEEL - P	320	8			0	0	0	PARRAZ,J		
500024	55	16 S	14 E	6	NW	SE	SE			504406	3547853	EXEMPT	WATER PRO		DOMESTIC					1/1/1981	218	126 STEEL - P	218	6	SUBMERSIB	ELECTRIC	0	35	10	MAGDALENS		
500469	55	17 S	14 E	22	NE	SE	NE			510067	3533414	EXEMPT	WATER PRO		DOMESTIC					1/1/1981	302	190 STEEL - P	302	8	CENTRIFUG	ELECTRIC	0	22	0	SEMADENI		
086528	55	16 S	14 E	7	NW	NE	NE			504407	3546745	EXEMPT	WATER PRO		DOMESTIC					1/8/1981	350	121 STEEL - P	350	8	SUBMERSIB	ELECTRIC	0	0	78	ANTONICK,		
086472	55	17 S	14 E	21	NW	NW	SW			507040	3533639	EXEMPT	WATER PRO		DOMESTIC	STOCK				2/15/1981	305	200 STEEL - P	305	8		ELECTRIC	12	12	0	YOUNG & S		
087299	55	17 S	16 E	26	SW	NE	NE			530273	3532052	EXEMPT	WATER PRO		DOMESTIC					2/27/1981	700	550 OTHER - B	700	4			0	0	0	PERSELLIN		
086909	55	17 S	14 E	22	NE	SE	NW			509866	3533414	EXEMPT	WATER PRO		DOMESTIC					4/10/1981	330	185 STEEL - P	320	8	SUBMERSIB	ELECTRIC	20	20	5	HOOD, CHA		
638313	55	17 S	14 E	22	SE	SW	NE			509669	3532611	EXEMPT	WATER PRO		DOMESTIC					5/26/1981	280	195 STEEL - P	300	6			11	11	0	SIVLEY,F		
640261	55	17 S	14 E	17	SE					506525	3534345	EXEMPT	WATER PRO		DOMESTIC					6/15/1981	320	175 STEEL - P	260	8			35	35	0	ORTEGA, J		
086902	55	16 S	14 E	1	SE	NE	SE			513272	3547419	NON-SERVI	WATER PRO		INDUSTRIA					8/12/1981	701	260 OTHER - B	701	13	TURBINE	ELECTRIC	0	850	37		ARIZONA S	
501427	55	16 S	14 E	6	SW	SE	SW			504208	3546957	EXEMPT	WATER PRO		DOMESTIC					1/21/1982	208	108 STEEL - P	208	6	SUBMERSIB	ELECTRIC	18	18	0	GARCIA,D		
501989	55	18 S	15 E	15	NW	NE	SW			518832	3526241	EXEMPT	WATER PRO		DOMESTIC	STOCK				2/7/1982	305	150 PLASTIC O	200	4			0	0	0	LEBRECHT,		
501990	55	18 S	15 E	15	NW	NE	SW			518832	3526241	EXEMPT	WATER PRO		DOMESTIC					2/10/1982	185	140 PLASTIC O	173	4			0	0	0	LEBRECHT,		
634353	55	18 S	15 E	24	SW	NW	SW			521630	3523822	EXEMPT	WATER PRO		STOCK					2/17/1982	315	20 STEEL - P	20	8			0	0	0		LAZY Y-I	
502421	55	17 S	16 E	21	SE	SE	SW			527668	3533053	EXEMPT	WATER PRO		DOMESTIC					4/18/1982	430	60 PLASTIC O	430	5	SUBMERSIB	ELECTRIC	0	10	0	WALKER		
502233	55	17 S	16 E	21	NE	NE	NE			527855	3534479	EXEMPT	WATER PRO		DOMESTIC					5/7/1982	560	460 PLASTIC O	560	6			0	0	0		DOME WELL	
087468	55	16 S	14 E	18	SE	SE	SE			505194	3543735	EXEMPT	WATER PRO		DOMESTIC					6/28/1982	170	100 PLASTIC O	150	6		ELECTRIC	20	20	0	ALVAREZ,J		
503262	55	17 S	14 E	21	NW	NW	NW			507039	3533842	EXEMPT	WATER PRO		DOMESTIC					7/13/1982	310	180	0	0	SUBMERSIB	ELECTRIC	25	25	0	ALLEN,T R		
502181	55	16 S	15 E	23	SW	SW	SW			519889	3542541	REPLACEME	WATER PRO		MUNICIPAL					7/15/1982	1003	437 STEEL - P	1003	16	TURBINE	ELECTRIC	636	800	17		TUCSON, C	
502918	55	17 S	16 E	3	NW	SE	SW			528445	3538589	EXEMPT	WATER PRO		DOMESTIC					7/21/1982	700	550 STEEL - P	700	6	SUBMERSIB	ELECTRIC	5	1	496	LE GAULT,		
504079	55	17 S	16 E	28	SW	NE	NE			527067	3532053	EXEMPT	WATER PRO		DOMESTIC					11/7/1982	300	40 PLASTIC O	300	5	SUBMERSIB	ELECTRIC	20	20	280	LAGUILLO		
504404	55	17 S	15 E	7	NE	SE	NE			514998	3537258	EXEMPT	WATER PRO		DOMESTIC					11/27/1982	410	300 PLASTIC O	410	6			0	0	0	JIM R SMI		
504406	55	17 S	15 E	7	NE	SE	NE			514998	3537258	EXEMPT	WATER PRO		DOMESTIC					12/1/1982	440	300 PLASTIC O	420	6			0	0	0	NOYES,J		
504405	55	17 S	15 E	7	NE	SW	NW			514349	3537258	EXEMPT	WATER PRO		DOMESTIC					12/3/1982	410	310 PLASTIC O	410	6			0	0	0	GEORGE RA		
504402	55	17 S	15 E	7	SE	NW	NE			514567	3536846	EXEMPT	WATER PRO		DOMESTIC					12/8/1982	400	300 STEEL - P	400	6			0	0	0	STEWART T		
504460	55	17 S	15 E	7	NE	SW	SW			514349	3537052	EXEMPT	WATER PRO		DOMESTIC			11/7/2002	1/7/1983	400	300 PLASTIC O	400	6			0	0	0	BELL			
504459	55	17 S	15 E	7	NE	SE	SE			514999	3537052	EXEMPT	WATER PRO		DOMESTIC					1/13/1983	410	302 PLASTIC O	410	6			0	0	0	HILLCOK,M		
504403	55	17 S	14 E	17	NE	SW	SE			506413	3534847	EXEMPT	WATER PRO		DOMESTIC					1/15/1983	275	170 STEEL - P	275	6	CENTRIFUG	ELECTRIC	25	25	0	FOSHNOT,G		
504130	55	17 S	14 E	22	NW	NW	NW			508655	3533819	EXEMPT	WATER PRO		DOMESTIC					6/26/1983	355	205 STEEL - P	355	6	SUBMERSIB	ELECTRIC	30	30	0	COX,J E		
503997	55	17 S	14 E	21	NW	NW	NE			507241	3533839	EXEMPT	WATER PRO		DOMESTIC					7/12/1983	300	210 STEEL - P	296	8	SUBMERSIB	ELECTRIC	20	20	20	FLEMING,D		
505121	55	17 S	15 E	7	NW	SE	NW			513915	3537258	EXEMPT	WATER PRO		DOMESTIC					7/21/1983	400	285 PLASTIC O	400	6	SUBMERSIB	ELECTRIC	30	30	0	GRADY,L A		
504458	55	17 S	15 E	7	SE	NE	NE			515000	3536846	EXEMPT	WATER PRO		DOMESTIC					12/19/1983	420											

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY
513902	55	16	S	14	E	5 SW	SE	SE		505992	3546965	DOMESTIC	WATER PRO		DOMESTIC					5/16/1986	260	162 STEEL - P	260	6	SUBMERSIB	ELECTRIC	15	20	2	ROE, SYVE	
514434	55	17	S	15	E	26 NW	SW	NE		520253	3532441	DOMESTIC	WATER PRO		DOMESTIC					5/27/1986	850	710 STEEL - P	850	5	SUBMERSIB	ELECTRIC	10	10	30	GABLER, L	
514605	55	17	S	16	E	21 SE	NE	NE		527863	3533664	DOMESTIC	WATER PRO		DOMESTIC					6/24/1986	480	320 STEEL - P	480	8	SUBMERSIB	ELECTRIC	10	16	0	BAVENDER,	
514172	55	17	S	14	E	17 SE	SW	SE		506430	3534042	DOMESTIC	WATER PRO		DOMESTIC					7/15/1986	306	180 STEEL - P	306	8			0	0	0	LOCKAS, E	
514739	55	17	S	16	E	21 SE	NE	SW		527664	3533460	NON-DOMES	WATER PRO		DOMESTIC					7/19/1986	440	286 STEEL - P	440	6			0	0	0	ZAKERWSKI	
514763	55	17	S	16	E	29 NW	SW	NW		524856	3532452	EXEMPT	WATER PRO		DOMESTIC					7/20/1986	401	240 STEEL - P	401	6	SUBMERSIB	ELECTRIC	5	1	0	SINCLAIR	
514680	55	17	S	14	E	21 NE	NW	NE		508049	3533827	DOMESTIC	WATER PRO		DOMESTIC					8/10/1986	310	210 STEEL - P	310	6	SUBMERSIB	ELECTRIC	13	13	0	JOOS, CHR	
512564	55	16	S	14	E	5 SE	SW	SW		506193	3546966	DOMESTIC	WATER PRO		DOMESTIC					8/30/1986	264	154 STEEL - P	264	6			0	0	0		LA CASITA
515325	55	17	S	16	E	3 SE	SW	NW		528848	3538059	DOMESTIC	WATER PRO		DOMESTIC					10/6/1986	860	590 STEEL - P	20	8	SUBMERSIB	ELECTRIC	5	2	205	GARRONE,	
515397	55	17	S	14	E	21 NE	NW	NW		507847	3533830	DOMESTIC	WATER PRO		DOMESTIC					10/12/1986	320	220 STEEL - P	320	6	SUBMERSIB	ELECTRIC	19	18	0		PALO VERD
515414	55	17	S	15	E	7 SW	NE	NW		513915	3536846	DOMESTIC	WATER PRO		DOMESTIC					10/31/1986	370	270 STEEL - P	375	6			0	0	0	LEWIS, BY	
516123	55	16	S	16	E	16 SE	NW	NW		527094	3544734	DOMESTIC	WATER PRO		DOMESTIC					11/28/1986	718	595 STEEL - P	718	8	SUBMERSIB	ELECTRIC	15	15	42	COLLINS,	
514436	55	17	S	14	E	22 NE	SE	SW		509867	3533213	DOMESTIC	WATER PRO		DOMESTIC					1/11/1987	315	207 STEEL - P	315	6	SUBMERSIB	ELECTRIC	15	15	23	BARREDA,	
515170	55	17	S	14	E	22 NW	SW	SW		508658	3533216	DOMESTIC	WATER PRO		DOMESTIC					1/15/1987	320	280 STEEL - P	320	8	SUBMERSIB	ELECTRIC	25	25	0	GALLAGHER	
515919	55	17	S	16	E	21 SE	NE	SW		527664	3533460	DOMESTIC	WATER PRO		DOMESTIC					1/21/1987	450	100 STEEL - P	450	6			0	0	0	FELZIEN,	
516216	55	17	S	14	E	21 NW	SE	NE		507647	3533428	NON-EXEMP	WATER PRO		IRRIGATIO					2/24/1987	408	193 STEEL - P	403	12	TURBINE	ELECTRIC	27	25	3	DAVIS, RO	
527750	55	17	S	14	E	22 SW	NW	NW		508659	3533015	NON-DOMES	WATER PRO		NONE					6/30/1987	310	208 STEEL - P	310	6			0	0	0	WADE, JIM	
517687	55	17	S	16	E	21 NE	SE	NE		527859	3534071	DOMESTIC	WATER PRO		DOMESTIC					10/23/1987	500	60 STEEL - P	500	8	SUBMERSIB	ELECTRIC	18	18	105	ROOT, THO	
518914	55	17	S	16	E	21 SE	SE	SE		527868	3533053	DOMESTIC	WATER PRO		DOMESTIC					10/30/1987	500	85 STEEL - P	500	8	SUBMERSIB	ELECTRIC	10	10	0	WALKER	
519189	55	17	S	16	E	28 NE	NE	SE		527871	3532652	DOMESTIC	WATER PRO		DOMESTIC			1/19/2006	12/18/1987	470	325 STEEL - P	245	8	SUBMERSIB	ELECTRIC	10	15	0	POST		
519921	55	17	S	16	E	28 NW	NW	NW		526460	3532850	EXEMPT	WATER PRO		DOMESTIC					1/4/1988	200	0 STEEL - P	20	8	CENTRIFUG	ELECTRIC	11	7	95	CISNEROS	
521446	55	17	S	14	E	22 SE	SW	SW		509469	3532410	DOMESTIC	WATER PRO		DOMESTIC					7/21/1988	340	240 PLASTIC O	22	6			0	0	0	LONGFELLO	
521902	55	16	S	16	E	35 NW	NW	NW		529513	3540723	DOMESTIC	WATER PRO		DOMESTIC					8/11/1988	420	150 PLASTIC O	420	6	SUBMERSIB	ELECTRIC	12	15	0	PARIZEK,	
521901	55	17	S	16	E	21 SE	SE	SE		527868	3533053	DOMESTIC	WATER PRO		DOMESTIC					8/20/1988	335	80 STEEL - P	335	6	SUBMERSIB	ELECTRIC	15	15	100	M & M DAV	
522092	55	17	S	15	E	26 NW	SW	SW		520051	3532239	DOMESTIC	WATER PRO		DOMESTIC			12/28/2004	9/30/1988	850	690 PLASTIC O	850	8	SUBMERSIB	ELECTRIC	5	4	110	LEETZOW		
523832	55	18	S	15	E	22 SE	SW	NE		519434	3523630	DOMESTIC	WATER PRO		STOCK					3/25/1989	265	73 STEEL - P	265	6	SUBMERSIB	ELECTRIC	22	1	250	SALIDO, R	
524072	55	18	S	15	E	22 SW	NW	NW		518414	3524031	DOMESTIC	WATER PRO		DOMESTIC STOCK					4/4/1989	680	600 STEEL - P	21	8			0	0	0	HAWKINS,	
524181	55	16	S	14	E	6 NW	SE	SE		504406	3547853	SERVICE	WATER PRO		MUNICIPAL DOMESTIC					5/19/1989	350	135 STEEL - P	350	8	SUBMERSIB	ELECTRIC	160	160	7		THIM UTIT
524634	55	18	S	15	E	22 SE	SW	NE		519434	3523630	DOMESTIC	WATER PRO		DOMESTIC					6/11/1989	215	78 STEEL - P	215	10	SUBMERSIB	ELECTRIC	25	1	210	AALIDO, R	
525151	55	17	S	14	E	21 NW	SE	SE		507647	3533226	DOMESTIC	WATER PRO		DOMESTIC					8/30/1989	340	192 STEEL - P	340	6	SUBMERSIB	ELECTRIC	15	16	2	SMITH	
525782	55	17	S	16	E	28 NW	SE	SW		526864	3532252	DOMESTIC	WATER PRO		DOMESTIC					9/27/1989	315	90 STEEL - P	215	6			0	0	0	GOLPER, R	
523167	55	17	S	16	E	9 SW	SE	NE		527049	3536487	DOMESTIC	WATER PRO		DOMESTIC					9/29/1989	587	0 STEEL - P	45	6	SUBMERSIB	ELECTRIC	12	1	50	YOUNG	
525391	55	17	S	14	E	22 SE	SE	SW		509872	3532409	DOMESTIC	WATER PRO		DOMESTIC					10/26/1989	420	230 STEEL - P	420	8	SUBMERSIB	ELECTRIC	10	11	10	BLANCHARD	
525865	55	16	S	14	E	5 SE	SW	SE		506394	3546967	DOMESTIC	WATER PRO		DOMESTIC					11/3/1989	300	155 STEEL - P	300	6	CENTRIFUG	ELECTRIC	30	30	0	MARIZCAL,	
526409	55	17	S	16	E	30 SE	NW	SE		524262	3531848	DOMESTIC	WATER PRO		DOMESTIC					11/17/1989	520	180 STEEL - P	20	8	SUBMERSIB	ELECTRIC	10	5	18	CLICK, SC	
526275	55	17	S	16	E	29 NW	NW	SE		525055	3532652	DOMESTIC	WATER PRO		DOMESTIC					5/10/1990	200	55 STEEL - P	200	8	SUBMERSIB	ELECTRIC	6	10	0	CASSIDY,	
527979	55	18	S	15	E	22 SE	SW	NE		519434	3523630	DOMESTIC	WATER PRO		DOMESTIC					6/10/1990	605	260	605	0	SUBMERSIB	ELECTRIC	8	5	420	SALIDO, R	
528761	55	17	S	16	E	30 NE	SE	SE		524658	3532251	DOMESTIC	WATER PRO		DOMESTIC STOCK		IRRIGATIO			8/2/1990	625	0 STEEL - P	20	8			0	0	0	BEDSAUL,	
528517	55	17	S	14	E	22 NW	NE	NW		509058	3533819	DOMESTIC	WATER PRO		DOMESTIC					8/4/1990	350	222 STEEL - P	340	8	SUBMERSIB	ELECTRIC	18	0	10	GRAVNING	
528639	55	17	S	16	E	29 NW	NW	NW		524854	3532854	DOMESTIC	WATER PRO		DOMESTIC IRRIGATIO					8/7/1990	365	140 STEEL - P	365	8	SUBMERSIB	ELECTRIC	1	1	0	HICKS, DA	
528533	55	17	S	16	E	28 NW	SE	SW		526864	3532252	DOMESTIC	WATER PRO		DOMESTIC					8/16/1990	560	460 STEEL - P	20	8	SUBMERSIB	ELECTRIC	5	0	0	HALE, CAR	
526286	55	16	S	14	E	5 SW	SE	NE		505994	3547189	DOMESTIC	WATER PRO		DOMESTIC IRRIGATIO					9/1/1990	300	180 STEEL - P	300	6		ELECTRIC	35	35	0	LARA,JOSE	
530545	55	17	S	16	E	30 NW	NE	SW		523665	3532649	DOMESTIC	WATER PRO		DOMESTIC					3/8/1991	430	72 STEEL - P	330	8			0	0	0	BEECK, HE	
531894	55	16	S	14	E	5 SE	NW	SE		506399	3547416	DOMESTIC	WATER PRO		STOCK					6/4/1991	300	207 STEEL - P	300	8	SUBMERSIB	ELECTRIC	29	35	0	COCO, JU	
532168	55	17	S	16	E	9 SE	SE	SE		527854	3536284	DOMESTIC	WATER PRO		DOMESTIC					6/26/1991	500	400 STEEL - P	50	6			0	0	0	MUELLER,	
532148	55	18	S	15	E	23 NW	SW	SW		520043	3524233	DOMESTIC	WATER PRO		DOMESTIC					7/9/1991	145	80 STEEL - P	145	6	SUBMERSIB	ELECTRIC	5	9	0	DIETZMAN,	
532422	55	17	S	16	E	21 SE	SE	SE		527868	3533053	DOMESTIC	WATER PRO		DOMESTIC					8/6/1991	743	550 PLASTIC O	745	4	SUBMERSIB	ELECTRIC	5	5	735	SINGLER,	
533109	55	17	S	15	E	6 NW	NE	NE		514130	3539113	DOMESTIC	WATER PRO		DOMESTIC					9/28/1991	340	240 STEEL - P	280	8	CENTRIFUG	ELECTRIC	15	15	24	COURY	
533398	55	17	S	16	E	30 SW	NE	SE		523863	3531846	DOMESTIC	WATER PRO		NONE					11/4/1991	500	99 PLASTIC O	500	4	CENTRIFUG	ELECTRIC	7	8	0	MARTIN, D	
533756	55	17	S	16	E	21 NW	NE	NW		526855	3534478	NON-DOMES	WATER PRO		INDUSTRIA					12/8/1991	366	43 STEEL - P	366	8	CENTRIFUG	ELECTRIC	25	27	0	GA. MARBL	
534071	55	17	S	15	E	7 NW	SE	SE		514132	3537052	DOMESTIC	WATER PRO		DOMESTIC					2/13/1992	320	280 STEEL - P	320	8	SUBMERSIB	ELECTRIC	28	28	0	GRADY, GE	
534039	55	17	S	14	E	8 NE	SE	SE		506806	3536465	NON-EXEMP	WATER PRO		IRRIGATIO RECREATIO					5/22/1992	500	330 STEEL - P	500	12			0	0	0	PIMA COUN	
534025	55	17																													

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WELL USE1	WELL USE2	WELL USE3	APPROV	INSTALL	DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY
545491	55	17	S	16	E	30	NE	SE	SW	524460	3532250	EXEMPT	WATER PRO	DOMESTIC	9/3/1994	730	590	STEEL - P	730	8							0	0	0	PETERSON	
544276	55	17	S	14	E	21	NW	SW	SW	507040	3533233	DOMESTIC	WATER PRO	DOMESTIC	10/3/1994	405	225	STEEL - P	400	8	CENTRIFUG	ELECTRIC	30	30	0	WIK, GEOR					
545610	55	17	S	16	E	30	NE	SE	NW	524459	3532451	EXEMPT	WATER PRO	DOMESTIC	12/1/1994	720	385	STEEL - P	720	8					0	0	0	HESS			
546430	55	17	S	16	E	30	SW	NE	NE	523863	3532047	EXEMPT	WATER PRO	DOMESTIC	12/18/1994	800	320	STEEL - P	800	8	SUBMERSIB	ELECTRIC	5	4	660	KATZ, KAL					
545753	55	17	S	16	E	29	NE	NE	SW	526058	3532651	EXEMPT	WATER PRO	DOMESTIC	12/27/1994	765	165	STEEL - P	765	6					0	0	0	STEWART,			
546456	55	16	S	14	E	5	SW	SW	NW	505391	3547184	EXEMPT	WATER PRO	DOMESTIC	12/29/1994	300	147	STEEL - P	300	8					0	0	0	LARA, JOS			
546362	55	17	S	16	E	29	SE	NW	NW	525658	3532051	EXEMPT	WATER PRO	DOMESTIC	1/24/1995	800	0	STEEL - P	800	6					0	0	0	HOPKINS &			
547650	55	17	S	15	E	23	NE	SE	SE	521455	3533843	EXEMPT	WATER PRO	DOMESTIC	2/8/1995	800	0	STEEL - P	200	8					0	0	0	WIDDOWS,			
546684	55	17	S	16	E	3	SE	SW	SW	528849	3537882	EXEMPT	WATER PRO	DOMESTIC	3/3/1995	410	360	STEEL - P	410	8	SUBMERSIB	ELECTRIC	6	6	0	ANDRESANO					
544323	55	17	S	16	E	28	NE	NE	SW	527669	3532652	DOMESTIC	WATER PRO	DOMESTIC	3/13/1995	900	540	STEEL - P	20	8					0	0	0	BARTLETT,			
548550	55	17	S	16	E	9	NE	SW	NW	527246	3537291	EXEMPT	WATER PRO	DOMESTIC	4/4/1995	700	285	STEEL - P	0	8					0	0	0	LEGENDRE			
548569	55	17	S	16	E	9	NE	SW	NE	527447	3537290	EXEMPT	WATER PRO	DOMESTIC	4/6/1995	350	265	STEEL - P	350	8					0	0	0	SAUL, KEN			
543847	55	17	S	16	E	26	SE	SE	SW	530875	3531455	DOMESTIC	WATER PRO	DOMESTIC	4/22/1995	550	55	STEEL - P	24	6	CENTRIFUG	ELECTRIC	5	0	0	BOYKO, DA					
548473	55	17	S	15	E	23	NE	SE	SE	521455	3533843	EXEMPT	WATER PRO	DOMESTIC	5/6/1995	800	570	STEEL - P	800	8	SUBMERSIB	ELECTRIC	0	6	0	WIDDOWS,					
548428	55	17	S	16	E	29	NW	NE	NW	525255	3532853	EXEMPT	WATER PRO	DOMESTIC STOCK	5/11/1995	780	380	STEEL - P	0	8					0	0	0				
549677	55	17	S	16	E	30	NE	SE	NE	524657	3532452	EXEMPT	WATER PRO	DOMESTIC	5/11/1995	700	365	STEEL - P	20	8					0	0	0	OCHOTOREN			
549494	55	17	S	15	E	17	NE	SW	NW	516013	3535626	EXEMPT	WATER PRO	DOMESTIC	6/12/1995	532	430	STEEL - P	532	8					0	0	0	CARROLL,			
549489	55	17	S	15	E	17	SE	SW	SE	516217	3534628	EXEMPT	WATER PRO	DOMESTIC	6/21/1995	536	430	STEEL - P	536	8					0	0	0	MAHAFFEY,			
550111	55	17	S	15	E	17	NE	NE	NE	516610	3536027	EXEMPT	WATER PRO	DOMESTIC	6/21/1995	537	430	STEEL - P	537	8					0	0	0	SHANTOS,,			
550439	55	16	S	14	E	6	NE	NE	SE	505198	3548297	EXEMPT	WATER PRO	DOMESTIC	8/3/1995	368	170	PLASTIC O	368	5					0	0	0	MOBILE HO			
543497	55	17	S	16	E	30	SE	SW	NW	524063	3531646	DOMESTIC	WATER PRO	DOMESTIC	8/26/1995	1025	280		1025	6					0	0	0	WESTENBUR			
546677	55	17	S	15	E	30	NE	SE	SW	514802	3532237	EXEMPT	WATER PRO	DOMESTIC	9/9/1995	558	445	STEEL - P	558	8					0	0	0	CRUELLE			
550812	55	17	S	15	E	13	NW	NE	NE	522244	3536046	EXEMPT	WATER PRO	DOMESTIC	9/21/1995	462	335	STEEL - P	462	8					0	0	0	CARROLL,			
550929	55	17	S	15	E	13	NE	NW	NE	522640	3536046	EXEMPT	WATER PRO	DOMESTIC	9/22/1995	450	355	STEEL - P	450	8					0	0	0	LANGFORD,			
550815	55	17	S	15	E	13	NW	SE	NE	522247	3535646	EXEMPT	WATER PRO	DOMESTIC	9/28/1995	463	360	STEEL - P	463	8					0	0	0	COOPER, C			
550813	55	17	S	15	E	13	NE	SW	NE	522644	3535647	EXEMPT	WATER PRO	DOMESTIC	9/28/1995	464	330	STEEL - P	464	8					0	0	0	TIBBS, GI			
550814	55	17	S	15	E	13	SE	NW	NE	522648	3535247	EXEMPT	WATER PRO	DOMESTIC	9/29/1995	464	335	STEEL - P	464	8					0	0	0	CARROLL,			
550491	55	16	S	15	E	18	NW	NW	SW	513458	3545356	EXEMPT	WATER PRO	DOMESTIC	10/2/1995	400	270	STEEL - P	400	6					0	0	0	KOLB CORR			
550660	55	17	S	14	E	13	NW	SE	SE	512479	3534822	EXEMPT	WATER PRO	COMMERCIAL DOMESTIC	10/10/1995	325	270	STEEL - P	350	8					0	0	0	CSI/COMMU			
552043	55	17	S	15	E	19	NW	NE	SE	514144	3534227	EXEMPT	WATER PRO	DOMESTIC	10/21/1995	400	300	PLASTIC O	400	8	SUBMERSIB	ELECTRIC	10	10	0	BARNES					
552191	55	15	S	14	E	31	SW	SW	SE	504080	3548740	EXEMPT	WATER PRO	DOMESTIC	11/3/1995	207	109	STEEL - P	207	6	SUBMERSIB	ELECTRIC	18	28	10	FORDERER,					
552141	55	17	S	16	E	30	NW	SE	SW	523664	3532247	EXEMPT	WATER PRO	DOMESTIC	12/5/1995	320	160	PLASTIC O	300	5	SUBMERSIB	ELECTRIC	10	5	48	LUIKART,					
553155	55	16	S	14	E	5	SW	SW	NE	505592	3547186	EXEMPT	WATER PRO	UTILITY (	12/6/1995	305	155	STEEL - P	305	8					0	0	0		LA CASITA		
552694	55	17	S	15	E	18	SW	NE	SE	514137	3535022	EXEMPT	WATER PRO	DOMESTIC	1/20/1996	400	265	STEEL - P	400	6	SUBMERSIB	ELECTRIC	31	40	0	LAWSON, G					
556718	55	17	S	15	E	9	NE	NW	NW	517607	3537680	EXEMPT	WATER PRO	DOMESTIC	1/28/1996	580	400	STEEL - P	580	6					0	0	0	GEISSLER			
553481	55	17	S	16	E	9	SW	SE	SW	526850	3536286	EXEMPT	WATER PRO	DOMESTIC	2/10/1996	1100	0		20	8	SUBMERSIB	ELECTRIC	5	5	270	REILLY					
553984	55	17	S	15	E	19	NE	SW	NW	514363	3534031	EXEMPT	WATER PRO	DOMESTIC	2/21/1996	410	340	STEEL - P	410	8	SUBMERSIB	ELECTRIC	25	25	30	EMRADA LO					
555436	55	17	S	15	E	7	NW	SW	NE	513699	3537258	EXEMPT	WATER PRO	DOMESTIC	3/1/1996	400	260	STEEL - P	400	6					0	0	0	GRADY, GE			
555034	55	17	S	16	E	30	NE	NE	SE	524656	3532653	EXEMPT	WATER PRO	DOMESTIC	3/8/1996	400	120	STEEL - P	400	8					0	0	0	GRIMES			
555423	55	17	S	15	E	7	NW	SW	NW	513481	3537258	EXEMPT	WATER PRO	DOMESTIC	4/15/1996	400	260	STEEL - P	400	6					0	0	0		GORDER GR		
549727	55	17	S	15	E	17	NE	SE	NW	516412	3535627	EXEMPT	WATER PRO	DOMESTIC	4/29/1996	517	440	STEEL - P	517	8					0	0	0		ABRAMS IN		
807211	55	17	S	15	E	6	NE	NW	SE	514563	3538936	EXEMPT	WATER PRO	DOMESTIC	5/3/1996	390	257	STEEL - P	390	8					18	0	0	DAVISON			
557677	55	17	S	15	E	18	NE	SW	SW	514353	3535423	EXEMPT	WATER PRO	DOMESTIC	5/13/1996	420	320	STEEL - P	420	8	SUBMERSIB	ELECTRIC	20	20	80		LUNA VIST				
546760	55	17	S	15	E	30	NW	NE	SW	513935	3532650	EXEMPT	WATER PRO	DOMESTIC	5/15/1996	500	355	PLASTIC O	500	6					0	0	0	DAY, DARR			
555895	55	17	S	15	E	19	NW	SE	SW	513929	3533836	EXEMPT	WATER PRO	DOMESTIC	5/18/1996	453	350	STEEL - P	453	8					0	0	0	TARTO, VI			
551461	55	17	S	15	E	17	SE	NW	NE	516214	3535227	EXEMPT	WATER PRO	DOMESTIC	6/11/1996	517	430	STEEL - P	517	8	SUBMERSIB	ELECTRIC	15	40	0	NICHOLS					
557109	55	17	S	14	E	17	NW	SE	SE	506008	3534848	EXEMPT	WATER PRO	DOMESTIC	6/12/1996	300	220	STEEL - P	300	8					0	0	0	JOHNSON,			
557886	55	17	S	14	E	17	NE	SW	NW	506206	3535049	EXEMPT	WATER PRO	DOMESTIC	7/19/1996	357	220	STEEL - P	0	6	SUBMERSIB	ELECTRIC	23	18	5	ALEGRIA					
558235	55	16	S	16	E	34	SE	NW	SW	528706	3539714	EXEMPT	WATER PRO	DOMESTIC	8/4/1996	800	245	STEEL - P	800	8	SUBMERSIB	ELECTRIC	0	0	0	LIX, JOE,					
557277	55	17	S	16	E	30	SW	SW	SW	523259	3531443	EXEMPT	WATER PRO	DOMESTIC	8/20/1996	395	125	STEEL - P	395	8					0	0	0	WILLIAMS			
558753	55	17	S	15	E	18	NW	SE	SE	514135	3535423	EXEMPT	WATER PRO	DOMESTIC	8/31/1996	405	270	STEEL - P	400	6	SUBMERSIB	ELECTRIC	33	33	0	MCCLURE					
557734	55	17	S	14	E	22	NW	SW	NW	508657	3533417	EXEMPT	WATER PRO	DOMESTIC	9/5/1996	380	165	STEEL - P	380	8					0	0	0		STEWART T		
556404	55	17	S	15	E	30	SW	NE	NE	514151	3532036	EXEMPT	WATER PRO	DOMESTIC	9/20/1996	520	310	STEEL - P	520	8					0	0	0	JONES, CO			
559328	55	17	S	15	E	19	NE	NE	NE	515012	3534425	EXEMPT	WATER PRO	DOMESTIC	10/6/1996	475	395	STEEL - P	475	8	SUBMERSIB	ELECTRIC	25	60	70	WALKER					
559422	55	17	S	15	E	9	NW	NE	SW	517205	3537474	EXEMPT	WATER PRO	DOMESTIC	10/6/1996	593	490	STEEL - P	593	8					0	0	0		TERRITORI		
559423	55	17	S	15	E	9	SW	NE	SW	517209	3536646	EXEMPT	WATER PRO	DOMESTIC	10/7/1996	593	495	STEEL - P	593	8					0						

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY
560198	55	17 S		16 E		29 SW		NE	NW	525258	3532050	EXEMPT	WATER PRO		DOMESTIC					2/1/1997	802	200 STEEL - P		0	6 SUBMERSIB	ELECTRIC	3	1	0	THRALL	
559260	55	17 S		15 E		9 NW		NW	NW	516802	3537683	EXEMPT	WATER PRO		DOMESTIC					2/15/1997	595	440 STEEL - P	595	6			0	0	0	HANSEN	
560898	55	17 S		15 E		17 SW		NE	NW	515616	3535226	EXEMPT	WATER PRO		DOMESTIC					2/19/1997	450	310 STEEL - P	450	8	SUBMERSIB	ELECTRIC	30	18	0		PIERCE CO
560043	55	17 S		16 E		30 SE		NW	NW	524062	3532048	EXEMPT	WATER PRO		DOMESTIC					2/20/1997	795	160 STEEL - P	795	8	SUBMERSIB	ELECTRIC	5	5	714	WEST, RIC	
560900	55	17 S		15 E		17 SW		SW	NE	515418	3534825	EXEMPT	WATER PRO		DOMESTIC					2/21/1997	450	310 STEEL - P	450	8	SUBMERSIB	ELECTRIC	30	18	0		PIERCE CO
560895	55	17 S		15 E		17 NW		SE	SW	515615	3535426	EXEMPT	WATER PRO							2/22/1997	450	300 STEEL - P	450	8	SUBMERSIB	ELECTRIC	30	30	0		PIERCE CO
560894	55	17 S		15 E		17 NW		SW	SW	515216	3535425	EXEMPT	WATER PRO							2/23/1997	450	310 STEEL - P	450	8	SUBMERSIB	ELECTRIC	30	18	0		PIERCE CO
560671	55	17 S		16 E		28 NE		NW	NW	527265	3532851	EXEMPT	WATER PRO		DOMESTIC				6/5/1998	2/27/1997	701	260 PLASTIC O	701	5			0	0	0	ALHOSAH	
560527	55	17 S		15 E		17 SW		NW	NE	515416	3535225	EXEMPT	WATER PRO		DOMESTIC					3/20/1997	450	330 PLASTIC O	450	6	SUBMERSIB	ELECTRIC	30	18	0	KEMMER	
561530	55	17 S		16 E		26 SE		NE	NE	531082	3532057	EXEMPT	WATER PRO		DOMESTIC					3/20/1997	445	230 STEEL - P	445	8			0	0	0	HAGAN, TI	
561632	55	17 S		15 E		23 NE		NW	NW	520851	3534437	EXEMPT	WATER PRO		DOMESTIC					4/5/1997	730	560 STEEL - P	730	8			0	0	0	HERMENS,	
561092	55	17 S		15 E		18 SW		SW	SE	513705	3534619	EXEMPT	WATER PRO		DOMESTIC					4/10/1997	550	410 PLASTIC O	550	6	SUBMERSIB	ELECTRIC	18	18	82	HORST, DA	
561375	55	16 S		14 E		11 NW		NW	SE	510428	3546534	EXEMPT	WATER PRO		DOMESTIC					5/6/1997	395	260 STEEL - P	395	8			0	0	0	HEATER, J	
561560	55	16 S		14 E		11 NW		SW	NE	510430	3546334	EXEMPT	WATER PRO		DOMESTIC					5/6/1997	392	260 STEEL - P	392	8			0	0	0	BLACK, DO	
561559	55	16 S		14 E		11 NW		SE	NW	510632	3546335	EXEMPT	WATER PRO		DOMESTIC					5/6/1997	392	260 STEEL - P	392	8			0	0	0	SWAN 6 WE	
561374	55	16 S		14 E		3 SE		SW	SW	509415	3546947	EXEMPT	WATER PRO		DOMESTIC					5/6/1997	384	260 STEEL - P	384	8			0	0	0		SWAN SONG
556717	55	17 S		15 E		9 NW		SW	SE	517006	3537060	EXEMPT	WATER PRO		DOMESTIC					5/8/1997	550	410 PLASTIC O	550	6	SUBMERSIB	ELECTRIC	20	20	65	CHAVEZ	
560187	55	17 S		14 E		17 SE		SE	SW	506632	3534043	EXEMPT	WATER PRO		DOMESTIC					5/17/1997	412	220 STEEL - P	407	8			0	0	0	SIRRINE,	
562614	55	17 S		15 E		17 NW		NE	NW	515612	3536026	EXEMPT	WATER PRO		DOMESTIC					5/21/1997	500	330 STEEL - P	500	8	SUBMERSIB	ELECTRIC	32	32	0		PIERCE CO
556154	55	17 S		16 E		26 SE		SE	NE	531078	3531657	EXEMPT	WATER PRO		DOMESTIC					5/21/1997	600	165 STEEL - P	0	8			0	0	0	SCHMIDT	
562616	55	17 S		15 E		17 NW		NW	NE	515412	3536026	EXEMPT	WATER PRO		DOMESTIC					5/24/1997	460	310 STEEL - P	460	8	SUBMERSIB	ELECTRIC	32	32	0		PIERCE CO
562615	55	17 S		15 E		17 NW		NE	SW	515613	3535826	EXEMPT	WATER PRO		DOMESTIC					5/27/1997	500	330 STEEL - P	20	8	SUBMERSIB	ELECTRIC	32	32	0	FLORES	
562617	55	17 S		15 E		17 NW		NW	SE	515413	3535826	EXEMPT	WATER PRO		DOMESTIC					6/4/1997	460	310 STEEL - P	460	8	SUBMERSIB	ELECTRIC	32	32	0	SMITH	
562892	55	17 S		15 E		18 NE		SE	NE	515006	3535625	EXEMPT	WATER PRO		DOMESTIC					6/7/1997	480	380 PLASTIC O	480	8			0	0	0	JACOBS, D	
561753	55	17 S		14 E		22 SE		SW	NE	509669	3532611	EXEMPT	WATER PRO		DOMESTIC					7/24/1997	410	196 STEEL - P	402	6			0	0	0	SMITH, DO	
563111	55	17 S		16 E		30 SE		NW	SW	524063	3531847	EXEMPT	WATER PRO		DOMESTIC					8/22/1997	770	149 PLASTIC O	375	5	SUBMERSIB	ELECTRIC	5	1	0	SCHWENN,	
564550	55	17 S		15 E		35 NW		NE	NW	520453	3531236	EXEMPT	WATER PRO		STOCK					9/21/1997	920	560 PLASTIC O	920	5	SUBMERSIB	ELECTRIC	5	0	0	MCGRATH	
562010	55	17 S		15 E		26 NW		NW	SW	520052	3532642	EXEMPT	WATER PRO		DOMESTIC					10/10/1997	790	600 PLASTIC O	790	6			0	0	0	RACKLIFFE	
561938	55	17 S		16 E		29 SW		NW	SW	524859	3531849	EXEMPT	WATER PRO		DOMESTIC					11/2/1997	710	240 PLASTIC O	710	7	SUBMERSIB	ELECTRIC	5	5	500	MATTHEWS,	
561122	55	17 S		15 E		19 NE		NW	SE	514579	3534227	EXEMPT	WATER PRO		DOMESTIC	IRRIGATIO				12/15/1997	600	360 STEEL - P	600	6			0	0	0	KERR, GLO	
566673	55	17 S		15 E		6 NW		NW	NW	513480	3539111	EXEMPT	WATER PRO		DOMESTIC				2/4/1998	3/16/1998	460	290 STEEL - P	460	6	SUBMERSIB	ELECTRIC	30	30	6		GASHO FAM
567817	55	17 S		15 E		7 NW		NE	NE	514132	3537670	EXEMPT	WATER PRO		DOMESTIC				4/3/1998	4/13/1998	400	290 PLASTIC O	400	8			0	0	0	MOYLAN	
565413	55	17 S		15 E		18 SE		NE	SE	515009	3535024	EXEMPT	WATER PRO		DOMESTIC				11/12/1997	4/22/1998	455	285 STEEL - P	455	6			0	0	0	VANDENLAN	
568648	55	17 S		15 E		19 NW		NW	NE	513708	3534421	EXEMPT	WATER PRO		DOMESTIC				6/4/1998	11/10/1998	462	290 STEEL - P	460	9			0	0	0	MANN	
569314	55	16 S		14 E		11 SW		NE	SE	510840	3545734	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	11/19/1998	280	210 STEEL - P	280	6			0	0	0	CORTESE	
569317	55	16 S		14 E		11 SW		SE	NE	510842	3545533	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	11/22/1998	280	210 STEEL - P	280	6			0	0	0	STAMEY	
569315	55	16 S		14 E		11 SE		SW	NW	511043	3545534	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	12/10/1998	300	210 STEEL - P	300	6			0	0	0	ALLEN	
569319	55	16 S		14 E		11 SE		NW	NE	511239	3545936	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	12/18/1998	280	210 PLASTIC O	280	6			0	0	0	CORTESE	
569318	55	16 S		14 E		11 SW		SW	NE	510441	3545532	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	12/30/1998	260	200 STEEL - P	280	6			0	0	0	MADISON	
569313	55	16 S		14 E		11 SW		NW	SE	510439	3545733	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	1/3/1999	260	200 STEEL - P	260	6			0	0	0	WONDERS	
569320	55	16 S		14 E		11 SE		NE	NE	511642	3545937	EXEMPT	WATER PRO		DOMESTIC				7/21/1998	1/6/1999	320	200 STEEL - P	320	6			0	0	0	CAMPBELL	
572076	55	17 S		14 E		17 SE		SE	SE	506835	3534044	EXEMPT	WATER PRO		DOMESTIC				1/27/1999	3/10/1999	300	140 PLASTIC O	280	8	SUBMERSIB	ELECTRIC	18	30	42	HOTTON	
572421	55	17 S		16 E		29 NW		NW	SW	524855	3532653	EXEMPT	WATER PRO		DOMESTIC				1/28/1999	3/22/1999	420	72 PLASTIC O	420	5			0	0	0	THOMPSON	
572454	55	17 S		16 E		30 NW		NW	SE	523467	3532648	EXEMPT	WATER PRO		DOMESTIC				1/26/1999	4/3/1999	325	75 PLASTIC O	320	5	SUBMERSIB	OTHER	2	15	0	JOSEPH	
573696	55	17 S		15 E		6 NE		NW	SE	514563	3538936	EXEMPT	WATER PRO		DOMESTIC				3/31/1999	4/13/1999	410	380 PLASTIC O	410	6			0	0	0	FORKUM	
572717	55	17 S		15 E		30 SW		SE	NE	514150	3531628	EXEMPT	WATER PRO		DOMESTIC				2/24/1999	4/16/1999	475	430 PLASTIC O	475	4			0	0	0		CONWELL F
574525	55	17 S		15 E		17 SE		NE	SW	516415	3535028	EXEMPT	WATER PRO		DOMESTIC				5/3/1999	5/16/1999	415	260 STEEL - P	415	6			0	0	0	ISAAK	
573950	55	16 S		16 E		27 SW		SW	NW	527906	3541121	EXEMPT	WATER PRO		DOMESTIC				4/6/1999	5/23/1999	380	0 STEEL - P	20	1			0	0	0	SALMON	
574087	55	17 S		15 E		23 SW		NE	NE	520652	3533640	EXEMPT	WATER PRO		DOMESTIC				4/9/1999	5/27/1999	800	425 PLASTIC O	800	5			0	0	0	FRANKLIN	
569631	55	17 S		16 E		26 SE		NE	NW	530879	3532056	EXEMPT	WATER PRO		DOMESTIC				7/22/1998	6/27/1999	400	145 STEEL - P	400	8			0	0	0	FEDEROFF	
575301	55	17 S		16 E		28 NW		SE	NE	527065	3532452	EXEMPT	WATER PRO		DOMESTIC				6/9/1999	7/10/1999	240	100 PLASTIC O	240	4			0	0	0	BLUME	
576626	55	17 S		15 E		7 NE		NW	NW	514348	3537670	EXEMPT	WATER PRO		DOMESTIC				9/3/1999	9/19/1999	420	295 PLASTIC O	420	5	SUBMERSIB	ELECTRIC	2	17	0	SANDERS	
577918	55	17 S																													

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY	
596764	55	17 S	16 E	26	NE	NE	NE	NE	NE	531088	3532857	EXEMPT	WATER PRO		DOMESTIC				1/16/2003	2/22/2002	740	400	PLASTIC O	740	5			0	0	0	ROLLAND	
589508	55	17 S	14 E	21	NW	NE	NW	NE	NW	507443	3533836	EXEMPT	WATER PRO		DOMESTIC				10/24/2001	3/7/2002	340	200	PLASTIC O	340	5			0	0	0	DAY	
590889	55	17 S	16 E	28	NE	SW	NW			527267	3532452	EXEMPT	WATER PRO		DOMESTIC				2/27/2002	5/17/2002	655	122	PLASTIC O	425	5			0	0	0	LAGUILLO	
592408	55	17 S	16 E	29	SE	NE	NW			526058	3532051	EXEMPT	WATER PRO		DOMESTIC				5/8/2002	6/11/2002	602	300	PLASTIC O	600	5			0	0	0	KNIGHT	
593720	55	17 S	15 E	7	NE	SW	SW			514349	3537052	EXEMPT	WATER PRO		DOMESTIC				10/21/2002	8/1/2002	415	315	STEEL - P	315	7			0	0	0	BELL	
592837	55	17 S	15 E	30	SW	SW	NW			513504	3531627	EXEMPT	WATER PRO		DOMESTIC				6/5/2002	8/12/2002	420	322	PLASTIC O	436	5	SUBMERSIB	ELECTRIC	25	25	98		18325 SOU
593193	55	16 S	14 E	19	NE	NE	NE			505195	3543535	EXEMPT	WATER PRO		DOMESTIC				7/15/2002	9/10/2002	230	127	OTHER - B	230	7	SUBMERSIB	ELECTRIC	30	34	26	GALLEGO	
593157	55	17 S	15 E	7	NW	NW	NW			513483	3537670	EXEMPT	WATER PRO		DOMESTIC				7/26/2002	10/1/2002	403	294	OTHER - B	403	7			0	0	0	DAVIS	
593224	55	17 S	15 E	18	NW	SE	SE			514135	3535423	EXEMPT	WATER PRO		DOMESTIC				7/10/2002	10/22/2002	590	0	OTHER - B	520	7	SUBMERSIB	ELECTRIC	10	10	92		ENTRADA E
595879	55	17 S	16 E	29	SW	NW	NW			524858	3532050	EXEMPT	WATER PRO		DOMESTIC				11/18/2002	12/3/2002	400	60	PLASTIC O	390	5	SUBMERSIB	ELECTRIC	16	0	0	RAMSEY,F	
595037	55	16 S	14 E	10	SW	NW	SE			508826	3545742	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	12/28/2002	390	240	PLASTIC O	390	5			0	0	0		SOUTHLAND
595038	55	16 S	14 E	10	SE	NE	SE			510038	3545733	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	12/29/2002	346	145	PLASTIC O	346	5			0	0	0		SOUTHLAND
593426	55	17 S	16 E	30	NE	NE	NE			524654	3532854	EXEMPT	WATER PRO		DOMESTIC				12/19/2002	12/30/2002	260	70	PLASTIC O	260	5			0	0	0	FORREST	
595039	55	16 S	14 E	10	SE	NE	SW			509836	3545734	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	12/31/2002	370	145	PLASTIC O	370	7			0	0	0		SOUTHLAND
595044	55	16 S	14 E	10	SW	NE	SE			509230	3545739	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	1/3/2003	340	145	PLASTIC O	340	5			0	0	0		SOUTHLAND
595043	55	16 S	14 E	10	SW	NW	SE			508826	3545742	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	1/5/2003	390	145	PLASTIC O	390	5			0	0	0		SOUTHLAND
595042	55	16 S	14 E	10	SW	NE	SW			509028	3545740	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	1/7/2003	380	145	PLASTIC O	380	5			0	0	0		SOUTHLAND
595041	55	16 S	14 E	10	SW	NW	SW			508624	3545743	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	1/9/2003	390	145	PLASTIC O	390	5			0	0	0		SOUTHLAND
595040	55	16 S	14 E	10	SW	NW	SW			508624	3545743	EXEMPT	WATER PRO		DOMESTIC				10/28/2002	1/14/2003	390	145	PLASTIC O	390	5			0	0	0		SOUTHLAND
596285	55	17 S	15 E	30	NW	NW	SE			513717	3532652	EXEMPT	WATER PRO		DOMESTIC				12/11/2002	3/25/2003	450	330	STEEL - P	429	9	SUBMERSIB	ELECTRIC	25	35	30		LOT 36 OF
200346	55	17 S	16 E	28	NW	SE	NE			527065	3532452	EXEMPT	WATER PRO		DOMESTIC				9/25/2003	11/13/2003	745	35	PLASTIC O	745	5	SUBMERSIB	ELECTRIC	5	8	678	KING	
599463	55	17 S	16 E	21	NE	SE	SW			527661	3533867	EXEMPT	WATER PRO		DOMESTIC	STOCK			7/11/2003	4/17/2004	300	160	PLASTIC O	300	7	SUBMERSIB	ELECTRIC	12	12	42	THRALL	
598888	55	17 S	16 E	9	SW	SE	SW			526850	3536286	EXEMPT	WATER PRO		DOMESTIC				6/10/2003	5/18/2004	705	360	PLASTIC O	705	5			0	0	0	CARRARA	
204870	55	17 S	16 E	9	NW	SW	SE			526644	3537091	EXEMPT	WATER PRO		DOMESTIC				8/23/2004	9/30/2004	350	225	PLASTIC O	350	0	SUBMERSIB	ELECTRIC	10	10	25	BRENNAN	
203428	55	17 S	15 E	23	SE	NE	NE			521456	3533644	EXEMPT	WATER PRO		DOMESTIC				6/1/2004	1/13/2005	720	590	PLASTIC O	720	5	SUBMERSIB	ELECTRIC	0	7	35	ABEYTA	
206340	55	17 S	15 E	30	SE	SE	SE			515012	3531426	EXEMPT	WATER PRO		DOMESTIC				1/18/2005	2/2/2005	575	362	PLASTIC O	570	5			0	0	0	SCATTINI	
206094	55	17 S	15 E	23	NE	SE	NW			521253	3534041	EXEMPT	WATER PRO		DOMESTIC				12/16/2004	3/5/2005	975	578	PLASTIC O	975	8	SUBMERSIB	ELECTRIC	6	6	0		GERARD &
203396	55	17 S	15 E	23	SE	NE	NE			521456	3533644	EXEMPT	WATER PRO		DOMESTIC				5/28/2004	3/28/2005	760	579	PLASTIC O	760	5			0	0	0	BREAW	
208706	55	17 S	14 E	21	NW	NE	SW			507444	3533633	EXEMPT	WATER PRO		DOMESTIC				7/29/2005	11/15/2005	325	220	STEEL - P	325	9			0	0	0	GOMEZ	
211643	55	16 S	15 E	13	SW	NW	NE			521696	3544729	EXEMPT	WATER PRO		DOMESTIC	STOCK			4/10/2006	6/30/2006	600	80	PLASTIC O	280	5			0	0	0	TUCK	
905113	55	17 S	15 E	18	NE	NW	SE			514568	3535825	EXEMPT			DOMESTIC				6/27/2006	7/6/2006	450	307	PLASTIC O	450	0			0	0	0	VANDER-HE	
208669	55	17 S	15 E	19	SE	NE	NE			515019	3533636	EXEMPT	WATER PRO		DOMESTIC				7/28/2005	7/20/2006	141	0	STEEL - P	20	9			0	0	0	PUHALA	
575271	55	17 S	16 E	29	SW	SW	NW			524860	3531648	EXEMPT	WATER PRO		DOMESTIC				6/23/2009	12/6/2009	900	50	STEEL - P	20	8	SUBMERSIB	ELECTRIC	10	5	0	WINSKY	
591260	55	16 S	14 E	5	SE	NE	NE			506805	3547645	EXEMPT	WATER PRO		DOMESTIC				4/19/2002		300	150	STEEL - P	300	6			0	0	0	SOTELO	
581272	55	16 S	14 E	6	SE	NE	SE			505193	3547406	EXEMPT	WATER PRO		DOMESTIC				6/15/2000		300	160	STEEL - P	300	6			0	0	0	STAHLKOPF	
591261	55	16 S	14 E	5	NE	NE	NE			506815	3548546	EXEMPT	WATER PRO		DOMESTIC				3/8/2002		300	150	STEEL - P	300	8			0	0	0	CASTILLO	
590649	55	16 S	14 E	5	NE	SE	NW			506608	3548093	EXEMPT	WATER PRO		UTILITY (				1/28/2002		300	150	STEEL - P	300	6			0	0	0		LA CASITA
559786	55	17 S	15 E	30	NE	NW	NW			514370	3532851	EXEMPT	WATER PRO		DOMESTIC	IRRIGATIO					550	372	STEEL - P	550	7	SUBMERSIB	ELECTRIC	35	35	0	BYRON	
501596	55	17 S	16 E	21	NE	SW	SE			527460	3533867	EXEMPT	WATER PRO		DOMESTIC						340	240	PLASTIC O	340	4			0	0	0	COKELY,J	
574003	55	18 S	15 E	22	SE	NE	NE			519842	3524032	EXEMPT	WATER PRO		DOMESTIC				4/6/2009		0	0	STEEL - P	850	8			0	0	0		MID AMERI
573043	55	18 S	15 E	23	SW	SW	SW			520041	3523429	EXEMPT	WATER PRO		DOMESTIC				2/12/2009		0	0	STEEL - P	750	8			0	0	0		MIDAMERIC
564022	55	16 S	14 E	11	NE	SW	NW			511034	3546336	EXEMPT	WATER PRO		DOMESTIC						336	215	PLASTIC O	336	6			0	0	0	O'CONNOR	
563989	55	16 S	14 E	11	NW	NE	SW			510629	3546535	EXEMPT	WATER PRO		DOMESTIC						310	203	PLASTIC O	310	6			0	0	0	LEWIS	
563999	55	16 S	14 E	11	NE	SE	NW			511437	3546338	EXEMPT	WATER PRO		DOMESTIC						350	210	PLASTIC O	350	6			0	0	0	LEWIS	
599662	55	16 S	14 E	6	NW	SE	SE			504406	3547853	EXEMPT	WATER PRO		DOMESTIC				7/25/2003		400	138	STEEL - P	400	8			0	0	0		CLIFF VAL
556788	55	16 S	14 E	5	NE	SE	NW			506608	3548093	EXEMPT	WATER PRO		UTILITY (						300	146	STEEL - P	300	6			0	0	0		LA CASITA
599657	55	16 S	14 E	5	NW	SE	NE			506002	3548084	EXEMPT	WATER PRO		DOMESTIC				9/9/2003		300	138	STEEL - P	300	8			0	0	0	STAHLKOPF	
594395	55	17 S	14 E	8	SE	SE	SW			506600	3535653	EXEMPT	WATER PRO		DOMESTIC				9/16/2002		350	238	STEEL - P	350	7			0	0	0		GREEN VAL
593294	55	17 S	14 E	2	NW	NW	NW			510242	3538696	EXEMPT	WATER PRO		DOMESTIC				7/1/2002		300	140	PLASTIC O	300	5			0	0	0	HIGGINS	
211039	55	17 S	14 E	22	SW	NW	SW			508661	3532814	EXEMPT	WATER PRO		DOMESTIC				2/14/2006		340	210	PLASTIC O	340	4			0	0	0	RONQUILLO	
562189	55	17 S	14 E	22	SE	SE	SE			510073	3532409	EXEMPT	WATER PRO		DOMESTIC						405	235	STEEL - P	0	8			0	0	0		

REGID	PROG	TWN	N/S	RNG	E/W	SEC	ACRE160	ACRE40	ACRE10	UTMX	UTMY	WELL TYPE	WELL USE1	WELL USE2	WATER USE1	WATER USE2	WATER USE3	APPROV	INSTALL	WELL DEPTH	WATER LEVEL	CASING TYPE	CASING DEEP	CASING WIDE	PUMP TYPE	PUMP POWER	PUMP RATE	TEST RATE	DRAW DOWN	LAST NAME	COMPANY		
592405	55		18 S		16 E		5 NW	NE	NW	525272	3529657	EXEMPT	WATER PRO		DOMESTIC				5/8/2002		550	370	STEEL - P	23		6	SUBMERSIB	ELECTRIC	5	4	130	MAY	
206356	55		16 S		14 E		19 NE	SE	SE	505200	3542928	NON-EXEMP	WATER PRO		INDUSTRIA				2/15/2005		350	105	STEEL - P	350	13			0	0	0	BARRASSI		
202883	55		16 S		15 E		23 SE	SE	SE	521293	3542540	NON-SERVI	WATER PRO		MUNICIPAL				5/28/2004		980	502	STEEL - P	980	20			0	0	0		CITY OF T	
566090	55		16 S		14 E		5 NW	NE	SW	505802	3548305	SERVICE	WATER PRO		UTILITY (				12/31/2097		300	150	STEEL - P	300	10			0	0	0		LA CASITA	
803869	55		16 S		14 E		18 SE			504900	3544035	EXEMPT	WATER PRO		DOMESTIC	IRRIGATIO				200	156	OTHER - B	0	2			35	0	0	TUCKER, R			
805493	55		16 S		14 E		5 SE	NW	SE	506399	3547416	EXEMPT	WATER PRO		DOMESTIC					255	159	OTHER - B	255	8			34	0	0		LA CASITA		
636347	55		17 S		14 E		17 NE	SE	SE	506818	3534847	EXEMPT	WATER PRO		DOMESTIC					285	175	OTHER - B	285	6			3	3	0	SUMSTINE,			
806737	55		16 S		14 E		18 NW	NE	NE	504409	3545136	EXEMPT	WATER PRO		IRRIGATIO					350	200	STEEL - P	350	10			0	0	0	STERBA			
804702	55		16 S		14 E		7			504508	3546038	EXEMPT	WATER PRO		DOMESTIC					180	125	STEEL - P	0	8			35	0	0	STEWART B			
616073	55		16 S		15 E		36 SW	NE	SE	522091	3539728	EXEMPT	WATER PRO		DOMESTIC	STOCK				620	595	STEEL - P	0	8			3	3	0	AZ STATE			
638546	55		17 S		14 E		17 NE	NW	NE	506400	3535451	EXEMPT	WATER PRO		DOMESTIC					270	170	STEEL - P	270	6			35	35	0	OTT,D E			
634864	55		17 S		14 E		17 NE	NW	NW	506197	3535452	EXEMPT	WATER PRO		DOMESTIC	STOCK				270	170	STEEL - P	270	6			18	18	0	HARTLEY			
613659	55		17 S		14 E		17 NE	NW	SW	506201	3535251	EXEMPT	WATER PRO		IRRIGATIO	DOMESTIC STOCK				280	0	STEEL - P	280	6			0	0	0	GASTETUM,			
639099	55		17 S		14 E		17 NE	SE	NE	506814	3535048	EXEMPT	WATER PRO		DOMESTIC	STOCK				210	175	STEEL - P	0	6			0	0	0	DAINS,M R			
801376	55		17 S		14 E		17 NE	SE		506714	3534948	EXEMPT	WATER PRO		DOMESTIC					246	176	STEEL - P	246	6			31	31	0	BRITTON			
634865	55		17 S		14 E		17 SE	NW		506318	3534545	EXEMPT	WATER PRO		DOMESTIC					275	175	STEEL - P	0	6			0	0	0	KIBBE,W J			
804814	55		17 S		14 E		17 NE	SE	SW	506615	3534847	EXEMPT	WATER PRO		DOMESTIC					270	165	STEEL - P	100	6			25	0	0	TRAMMELL,			
801264	55		17 S		14 E		22 NW	NW	NW	508655	3533819	EXEMPT	WATER PRO		DOMESTIC					311	210	STEEL - P	276	8			26	26	0	MARTINEZ			
639507	55		17 S		14 E		21 NE	NW	NE	508049	3533827	EXEMPT	WATER PRO		DOMESTIC					320	0	STEEL - P	319	8			30	30	0	DWYER,A			
564296	55		17 S		15 E		35 NW	SE	SW	520453	3530646	EXEMPT	WATER PRO		STOCK					0	530	STEEL - P	1055	8			0	0	0	GOLOS, DO			
636737	55		17 S		15 E		6			514240	3538488	EXEMPT	WATER PRO		DOMESTIC					320	277	STEEL - P	320	8			0	0	0	RELITZ, G			
616163	55		17 S		16 E		15 NE	NE	NE	529449	3536079	EXEMPT	WATER PRO		STOCK					420	0	STEEL - P	420	8			5	5	0	AZ STATE			
616162	55		17 S		16 E		14 NW	NW	SE	529854	3535882	EXEMPT	WATER PRO		STOCK					150	0	STEEL - P	150	8			5	5	0	AZ STATE			
616007	55		15 S		14 E		32 SE	NW	NW	506297	3549352	NON-EXEMP	WATER PRO		INDUSTRIA					600	140	STEEL - P	500	16			1000	1000	0		TUCSON AI		
604336	55		16 S		15 E		22 SW	NW	NW	518268	3543139	NON-EXEMP	WATER PRO		MUNICIPAL					420	0	STEEL - P	420	8			0	0	0	PIMA COUN			
604337	55		16 S		15 E		14 NW	SE	NE	520493	3545142	NON-EXEMP	WATER PRO		MUNICIPAL					600	0	STEEL - P	600	16			1150	0	0	PIMA COUN			
808468	55		17 S		14 E		17 NE	SW	NE	506408	3535049	NON-EXEMP	WATER PRO		DOMESTIC					260	188	STEEL - P	0	8			0	0	0	BREAZEALE			
622107	55		16 S		14 E		18 SE			504900	3544035	EXEMPT	WATER PRO		DOMESTIC	STOCK	IRRIGATIO			200	0		0	0			0	0	0	DAVIDSON,			
640508	55		16 S		14 E		6 NW	SE		504308	3547965	EXEMPT	WATER PRO		DOMESTIC					200	0		0	0			0	0	0	HOOD,J			
607809	55		16 S		14 E		19 NE	SW	NW	504603	3543131	NON-EXEMP	WATER PRO		IRRIGATIO					0	0		0	18			0	0	0	ASARCO IN			
201397	55		17 S		15 E		19 SW	SW	NE	513715	3533251	EXEMPT	WATER PRO		DOMESTIC				3/2/2004		0	0		0		0	SUBMERSIB	ELECTRIC	10	15	0	PUHALA	
573708	55		17 S		15 E		6 NE	NW	SE	514563	3538936	EXEMPT								0	0		0		0	SUBMERSIB	ELECTRIC	10	9	1	FORKUM		
560722	55		17 S		16 E		29 SW	SE	SE	525460	3531449	EXEMPT	WATER PRO		DOMESTIC					0	0		0		0	SUBMERSIB	ELECTRIC	12	0	0		SANTA RIT	
562978	55		16 S		14 E		3 SW	SE	SW	509011	3546947	DOMESTIC	WATER PRO		DOMESTIC					0	0		0		0	SUBMERSIB	ELECTRIC	22	22	10		SWAN RANC	
543983	55		17 S		14 E		22 NE	SW	NW	509463	3533415	DOMESTIC	WATER PRO		DOMESTIC					0	0		0		0	SUBMERSIB	ELECTRIC	25	25	0	JAYME, GU		
611421	55		16 S		14 E		32 NE	NW	SE	506396	3540108	EXEMPT	WATER PRO		DOMESTIC					0	143		0	16			26	26	0	TRIAD 149			
560899	55		17 S		15 E		17 SW	SE	NW	515618	3534826	EXEMPT	WATER PRO		DOMESTIC					0	0		0		0	SUBMERSIB	ELECTRIC	30	30	0		PIERCE CO	
639173	55		16 S		14 E		7 SW			504111	3545638	EXEMPT	WATER PRO		DOMESTIC					290	0		0	10			34	34	0	TRAPPMAN,			
611422	55		16 S		14 E		29 SE	SW	SW	506194	3540512	EXEMPT	WATER PRO		DOMESTIC					214	0		0	10			35	35	0	TRIAD 149			

Appendix 2A - GWSI Wells with 2005-6 Water Level Measurements											
	SITE_	SITE_	WLWA_	WLWA_D		SITE_				SITE_	SITE_
SITE_WELL_	UTM_E	UTM_N	WATER	EPH	WLWA_MEASU	WELL1	WLOW_LAST_	WLOW_FIRST	WATER	USE_1	
315109110482301	518343	3523947	3910	200	2/25/2005	805420	HAWKINS	J.N.	H	W	
315126110473201	519630	3524472	4146	84	2/25/2005	804754	MOORE	ROYANNA	U	U	
315130110475201	519209	3524656	4078	77	3/3/2005		SANTA RITA	RANCH	H	W	
315643110554501	506695	3534185	2577	202	2/3/2005	634865	KIBBE		H	W	
315649110430001	526804	3534557	3688	42	1/27/2005	533756	OF ARIZONA	GA. MARBLE	U	U	
315651110564201	505224	3534369	2537	184	2/23/2005	624005	FICO		I	W	
315702110565001	504909	3534738	2562	156	2/18/2005	623991	FICO		I	W	
315724110460701	522024	3535407	2781	619	2/23/2006	801279	FOOTHILLS	SANTA RITA	U	U	
315728110563901	505381	3535539	2551	153	2/18/2005	623981	ORO VERDE	RANCH	I	W	
315728110570301	504646	3535569	2542	161	2/23/2005	624001	FICO		I	W	
315812110565301	504882	3536739	2562	128	2/18/2005	623997	FICO		I	W	
315823110560801	506063	3537417	2535	161	2/18/2005	623987	FICO		I	W	
315840110463701	521101	3537807	2639	555	1/11/2006		SPRING VALLEY		U	U	
315849110570001	504881	3537971	2535	140	2/18/2005	623998	FICO		I	W	
315855110553101	507059	3538249	2547	161	12/16/2005	619897	TUCSON	CITY OF	P	W	
315857110545501	508004	3538312	2544	181	12/16/2005	619898	TUCSON	CITY OF	P	W	
315909110520701	512544	3538747	2578	253	12/16/2005	619904	TUCSON	CITY OF	U	O	
315913110565301	504881	3538771	2543	127	2/18/2005	623999	FICO		U	U	
315920110510301	514118	3539026	2575	311	1/18/2005		RELITZ	GLADYS	H	W	
315923110561201	505983	3539111	2553	118	2/2/2005	617264	CYPRUS PIMA		U	U	
315940110560801	506088	3539634	2562	114	2/2/2005		LEVIS	A R	U	U	
315955110555801	506350	3540096	2544	128	2/2/2005	617261	CYPRUS PIMA		S	W	
320007110522801	512017	3540471	2558	242	12/16/2005	619900	TUCSON	CITY OF	P	W	
320007110533301	510154	3540469	2517	238	12/16/2005	619901	TUCSON	CITY OF	P	W	
320007110570601	504565	3540465	2587	69	2/15/2005	607795	ASARCO		U	U	
320010110514001	513119	3540564	2570	275	12/16/2005	619899	TUCSON	CITY OF	U	U	
320014110564001	505247	3540680	2584	71	2/15/2005	607817	ASARCO		U	U	
320016110472901	519704	3540760	2597	477	2/8/2006	619865	STATE LAND	ARIZONA	P	W	
320016110553301	507005	3540743	2544	141	12/16/2005	619896	TUCSON	CITY OF	P	W	
320031110560201	506244	3541204	2548	122	2/18/2005	607813	ASARCO		U	U	
320033110561901	505798	3541266	2549	106	2/15/2005	607814	ASARCO		U	U	
320033110563401	505273	3541265	2595	60	2/15/2005	607818	ASARCO	MINING	U	U	
320033110570601	504565	3541265	2596	50	2/15/2005	607800	ASARCO		I	W	
320033110573801	503725	3541172	2598	50	2/15/2005	607799	ASARCO		U	U	
320041110554201	506769	3541513	2547	135	2/18/2005	607812	ASARCO		U	U	
320043110522901	511831	3542010	2551	251	12/16/2005	619893	TUCSON	CITY OF	P	W	
320053110513501	513327	3541919	2567	274	12/16/2005	619905	TUCSON	CITY OF	P	W	
320058110413301	528962	3542198	3034	326	1/19/2005	625704	WATER CO	VAIL	U	U	
320100110571501	504565	3542035	2592	46	2/15/2005	607801	ASARCO		U	U	
320101110550201	508080	3542129	2519	206	12/16/2005	619894	TUCSON	CITY OF	P	W	
320101110563201	505457	3542128	2540	105	2/18/2005	607811	ASARCO		U	U	
320106110553401	506978	3542283	2546	154	12/16/2005	619895	TUCSON	CITY OF	P	W	
320111110463101	521222	3542456	2609	501	4/12/2005	202883	TUCSON	CITY OF	U	U	
320111110472501	519806	3542453	2599	451	2/9/2006	502181	TUCSON	CITY OF	P	W	
320113110573701	504066	3542496	2586	52	2/15/2005	607803	ASARCO		U	U	
320124110550601	507712	3542837	2530	158	12/16/2005	619888	TUCSON	CITY OF	P	W	
320125110570001	504722	3542866	2580	52	2/17/2005	607804	ASARCO		U	U	
320132110573501	503751	3543081	2576	58	2/15/2005	607805	ASARCO		U	U	
320135110560701	506112	3543175	2544	136	12/16/2005	619878	TUCSON	CITY OF	P	W	
320136110554001	506820	3543206	2544	156	12/16/2005	619875	TUCSON	CITY OF	U	U	
320143110563601	505351	3543421	2547	88	1/1/2006	619882	TUCSON	CITY OF	P	W	
320146110572801	503987	3543512	2558	67	2/15/2005	607807	ASARCO		N	W	
320147110572801	503987	3543543	2569	56	2/15/2005	607806	ASARCO		U	U	
320203110554001	506819	3544037	2537	147	12/16/2005	619876	TUCSON	CITY OF	U	O	
320218110563701	505324	3544498	2542	100	12/16/2005	619877	TUCSON	CITY OF	P	W	
320225110421401	527958	3544751	2880	385	1/19/2005	625703	WATER CO	VAIL	P	W	
320238110465201	520613	3545164	2605	450	2/1/2005	604337	COUNTY PARKS	PIMA	C	W	
320243110572201	504144	3545267	2551	57	2/15/2005	607782	ASARCO		U	U	
320250110423901	527274	3545457	2660	570	1/19/2005	635351	SANTA RITA	SHRINE OF	H	W	
320252110571201	504616	3545545	2535	75	1/1/2006	619887	TUCSON	CITY OF	P	W	
320325110572001	504274	3546684	2525	67	12/16/2005	619879	TUCSON	CITY OF	U	U	
320334110572601	504038	3546838	2491	112	2/1/2005	086528	ANTONICK	CHESTER	H	W	
320335110572701	504038	3546868	2515	65	1/11/2006	632691	IRWIN	G W	I	W	
320342110562001	505768	3547423	2511	139	2/2/2005	801430	SMEDLEY	JOHN	H	W	
320344110554901	506581	3547147	2514	144	2/2/2005		WATER CO-OP	SUMMIT	H	W	
320345110492601	516624	3547189	2567	338	12/16/2005	619870	TUCSON	CITY OF	U	O	
320400110564701	505060	3547639	2499	139	12/16/2005	567973	TUCSON	CITY OF	P	W	
320401110571201	504405	3547669	2515	95	2/2/2005	618411	WATER CO	E & T	P	W	
320402110502802	514997	3547802	2550	317	1/12/2006		USGS		U	U	
320402110502803	514997	3547802	2572	295	1/12/2006		USGS		U	U	
320402110571201	504405	3547700	2514	96	2/2/2005	618409	WATER CO	E & T	P	W	
320403110483801	518065	3547623	2552	393	2/2/2005	611582	EL PASO	NAT GAS CO	U	U	
320403110483901	517986	3547653	2559	393	2/2/2005	611583	EL PASO	NAT GAS CO	N	W	
320404110571201	504405	3547761	2504	106	2/2/2005	524181	WATER CO	E & T	P	W	
320421110512401	513528	3548293	2522	293	12/16/2005	547292	TUCSON	CITY OF	P	W	
320429110550701	507682	3548533	2512	161	12/16/2005		TUCSON	CITY OF	O	O	
320431110520901	512348	3548599	2546	262	2/2/2005		ARCOR		U	O	
320455110573401	503827	3549331	2501	94	12/16/2005	619880	TUCSON	CITY OF	P	W	
320457110573401	503827	3549393	2505	93	12/16/2005	505580	TUCSON	CITY OF	O	O	
320510110573401	503827	3549701	2503	92	12/16/2005	619885	TUCSON	CITY OF	P	W	
320516110542301	508939	3549981	2504	187	1/10/2006	616008	STATE OF	ARIZONA	N	W	
320520110573501	503853	3550163	2500	87	12/16/2005	619884	TUCSON	CITY OF	P	W	
395909110530701	510917	3538745	2529	254	12/16/2005	619903	TUCSON	CITY OF	P	W	

Appendix 2B. GWSI Wells with 1995-6 Water Levels

SITE_WELL_	SITE_ UTM_E	SITE_ UTM_N	WLWA_ WATER	WLWA_D EPTH	WLWA_M EASU	SITE_ WELL1	WLOW_LAST_	WLOW_FIRST	SITE_ WATER	SITE_ USE_1
320334110572601	504038	3546838	2468	135	1/18/1995	086528	ANTONICK	CHESTER	H	W
320253110423701	527352	3545611	2682	553	1/17/1995	504558	VAIL SCHOOL		T	W
315042110472301	519896	3523088	4253	272	1/18/1995	510181	BIRKHOLZ	REUBEN & MARY	H	W
325057110474101	519422	3523548	4281	59	1/18/1995	523832	SALIDO	RENE	H	W
315054110474201	519396	3523456	4289	61	1/18/1995	524634	SALIDO	RENE	H	W
315749110425301	526957	3536250	3466	141	1/26/1995	532168	MUELLER	JOHN	H	W
315649110430001	526804	3534557	3688	42	1/16/1995	533756	OF ARIZONA	GA. MARBLE	U	U
320238110465201	520613	3545164	2618	437	1/16/1995	604337	COUNTY PARKS	PIMA	C	W
320243110572201	504144	3545267	2501	107	1/19/1995	607782	ASARCO		U	U
320007110570601	504565	3540465	2531	124	1/19/1995	607795	ASARCO		U	U
320033110570601	504565	3541265	2538	108	1/19/1995	607800	ASARCO		I	W
320100110571501	504565	3542035	2517	121	1/19/1995	607801	ASARCO		U	U
320113110573701	504066	3542496	2510	127	1/19/1995	607803	ASARCO		U	U
320132110573501	503751	3543081	2507	127	1/19/1995	607805	ASARCO		U	U
320147110572801	503987	3543543	2504	121	1/19/1995	607806	ASARCO		U	U
320146110572801	503987	3543512	2495	130	1/19/1995	607807	ASARCO		N	W
320101110563201	505457	3542128	2506	139	1/19/1995	607811	ASARCO		U	U
320033110561901	505798	3541266	2531	124	1/19/1995	607814	ASARCO		U	U
320033110563401	505273	3541265	2541	114	1/23/1995	607818	ASARCO	MINING	U	U
320403110483901	517986	3547653	2574	378	1/19/1995	611583	EL PASO	NAT GAS CO	N	W
320020110483401	518313	3540880	2613	400	1/16/1995	616071	STATE LAND	ARIZONA	P	W
315955110555801	506350	3540096	2534	138	1/24/1995	617261	CYPRUS PIMA		S	W
320401110571201	504405	3547669	2485	125	1/27/1995	618411	UTILITY CO	THIM	P	W
320016110472901	519704	3540760	2610	464	1/11/1995	619865	STATE LAND	ARIZONA	P	W
320345110492601	516624	3547189	2585	320	1/11/1995	619870	TUCSON	CITY OF	U	O
320136110554001	506820	3543206	2508	192	1/9/1995	619875	TUCSON	CITY OF	U	U
320203110554001	506819	3544037	2505	179	1/9/1995	619876	TUCSON	CITY OF	U	O
320218110563701	505324	3544498	2500	143	1/9/1995	619877	TUCSON	CITY OF	P	W
320135110560701	506112	3543175	2503	177	1/9/1995	619878	TUCSON	CITY OF	P	W
320325110572001	504274	3546684	2486	106	1/9/1995	619879	TUCSON	CITY OF	U	U
320455110573401	503827	3549331	2471	124	1/20/1995	619880	TUCSON	CITY OF	P	W
320143110563601	505351	3543421	2504	131	1/9/1995	619882	TUCSON	CITY OF	P	W
320428110570501	504588	3548500	2462	138	1/9/1995	619883	TUCSON	CITY OF	P	W
320520110573501	503853	3550163	2454	133	1/9/1995	619884	TUCSON	CITY OF	P	W
320510110573401	503827	3549701	2474	121	1/9/1995	619885	TUCSON	CITY OF	P	W
320402110573701	504012	3547700	2471	129	1/9/1995	619886	TUCSON	CITY OF	P	W
320252110571201	504616	3545545	2494	116	1/9/1995	619887	TUCSON	CITY OF	P	W
320124110550601	507712	3542837	2508	180	1/9/1995	619888	TUCSON	CITY OF	P	W
320430110550801	507655	3548564	2487	186	1/18/1995	619889	TUCSON	CITY OF	P	W
320043110522901	511831	3542010	2569	233	1/9/1995	619893	TUCSON	CITY OF	P	W
320101110550201	508080	3542129	2514	210	1/9/1995	619894	TUCSON	CITY OF	P	W
320106110553401	506978	3542283	2515	185	1/9/1995	619895	TUCSON	CITY OF	P	W
320016110553301	507005	3540743	2525	160	1/9/1995	619896	TUCSON	CITY OF	P	W
315855110553101	507059	3538249	2553	155	1/9/1995	619897	TUCSON	CITY OF	P	W
315857110545501	508004	3538312	2548	177	1/9/1995	619898	TUCSON	CITY OF	P	W
320007110522801	512017	3540471	2570	230	1/9/1995	619900	TUCSON	CITY OF	P	W
320007110533301	510154	3540469	2539	216	1/9/1995	619901	TUCSON	CITY OF	P	W
395909110530701	510917	3538745	2554	228	1/9/1995	619903	TUCSON	CITY OF	P	W
315909110520701	512544	3538747	2591	240	1/17/1995	619904	TUCSON	CITY OF	U	O
320053110513501	513327	3541919	2580	261	1/9/1995	619905	TUCSON	CITY OF	P	W
315728110563901	505381	3535539	2567	137	1/10/1995	623981	ORO VERDE	RANCH	I	W
315702110565001	504909	3534738	2578	140	1/10/1995	623991	FICO		I	W
315812110565301	504882	3536739	2566	124	1/10/1995	623997	FICO		I	W
315849110570001	504881	3537971	2532	143	1/10/1995	623998	FICO		I	W
315913110565301	504881	3538771	2531	139	1/10/1995	623999	FICO		U	U
315728110570301	504646	3535569	2556	147	1/10/1995	624001	FICO		I	W
315651110564201	505224	3534369	2556	165	1/11/1995	624005	FICO		I	W
315726110570701	504541	3535508	2550	150	1/11/1995	624007	FICO		U	Z
315837110411501	529525	3537735	3537	23	1/16/1995	629283	WATER CO	SANTA RITA	U	U
320335110572701	504038	3546868	2475	105	11/30/1995	632691	IRWIN	G W	I	W
320252110504801	514555	3545400	2565	292	1/18/1995	633566	REES	FRANK	U	U
315643110554501	506695	3534185	2579	199	1/13/1995	634865	KIBBE		H	W
320342110562001	505768	3547423	2481	169	1/18/1995	801430	SMEDLEY	JOHN	H	W
315126110473201	519630	3524472	4152	78	1/18/1995	804754	MOORE	ROYANNA	U	U
315109110482301	518343	3523947	3918	192	1/13/1995	805420	HAWKINS	J.N.	H	W
315130110475201	519209	3524656	4079	76	1/13/1995		SANTA RITA	RANCH	H	W
315759110510901	513938	3536532	2645	273	1/17/1995		DESPAIN	LAMAR	H	W
315840110463701	521101	3537807	2639	555	12/1/1995		SPRING VALLEY		U	U
315940110560801	506088	3539634	2557	119	1/24/1995		LEVIS	A R	U	U
315953110490001	507819	3539697	2550	170	1/9/1995		TUCSON	CITY OF	U	U
320344110554901	506581	3547147	2488	170	1/18/1995		WATER CO-OP	SUMMIT	H	W
320402110502801	514997	3547802	2552	315	12/1/1995		USGS		U	U
320402110502802	514997	3547802	2568	299	12/1/1995		USGS		U	U
320402110502803	514997	3547802	2592	275	12/1/1995		USGS		U	U
320429110550701	507682	3548533	2512	161	1/9/1995		TUCSON	CITY OF	O	O