# Corazon de Tres Rios Del Norte Groundwater Evaluation

**Hydrologic Evaluation of the Occurrence and Nature of Ground-Water Level Trends and Water Balance Related to Future Water Resource Use in the Area**

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# Corazon de Tres Rios Del Norte Groundwater Evaluation

**Hydrologic Evaluation of the Occurrence and Nature of Ground-Water Level Trends and Water Balance Related to Future Water Resource Use in the Area**

## 1.0 Introduction and Background

The Corazon de Tres Rios Del Norte (CTRDN) includes the area surrounding the confluence of the Rillito and Canada del Oro Wash (CDO) with the Santa Cruz River (SCR) and is a significant regional location for water resources management, flood control and public recreation. Pima County has positioned the CTRDN as a focal point for future flood control, environmental enhancement/restoration. recreational development And recharge activities An understanding of the sub-surface water levels and flow dynamics and what influences them is essential to future planning efforts for this area.

### 1.1 Purpose and Scope

The purpose of this project is to perform a baseline hydrologic evaluation of current and historic water-level conditions, changes and monitoring opportunities in the vicinity of the CTRDN area. Both the CTRDN and overall hydrologic study area are shown in Figure 1-1.

### 1.2 Methodology

Available documents regarding this project were collected and reviewed by Pima County Regional Flood Control District (RFCD) staff. Sources of information regarding CTRDN include the Pima County and Regional Flood Control District web sites and libraries. Reports reviewed include:

- September 21, 2010 memorandum from C.H. Huckelberry to the Pima County Board of Supervisors outlining the proposed multi-purpose elements of the proposed CTRDN (Huckelberry, 2010a).
- September 28, 2010 memorandum from C.H. Huckelberry to Pima County Supervisor Ray Carroll answering questions regarding the scope, schedule of implementation, estimated cost and source of funding. (Huckelberry, 2010b).
- Brown and Caldwell (2008) completed a hydrologic study for California Portland Cement Southwest Materials, Inc. evaluating options to dewater the Orange Grove Road Gravel Pit. The report provided basic background hydrologic data regarding the hydrogeologic characteristics of the area and simulated, with a three dimensional groundwater flow model, the pumping needed to dewater the pit to allow continued mining of sand and gravel.

Several data sources were available to review and assess available well measurements and water levels in the study area:

- The Arizona Department of Water Resources (ADWR) Groundwater Site Inventory (GWSI) is the most comprehensive data base available for historical water levels. However, data was lacking for some portions of the area.

- The ADWR well registry was also reviewed to assess the number, location and type of wells in the vicinity.
- The Pima County MapGuide overlay for wells also identifies wells in the area. Monitor well data from
- The Pima County Regional Wastewater Reclamation Department (RWRD)
- Pima County Environmental Quality Department Division of Solid Waste data were collected with comprehensive historical water-level data for the CTRDN area.
- Tucson Water had extensive water data for their wells in the area, which includes water levels, pump tests, water withdrawn and well construction.
- Arizona Department of Environmental Quality (WQARF site data)
- U.S. Geological Survey for surface water flows and groundwater level data.

Additional water resources data were collected from the following sources:

- Pumping data were collected from ADWR for non-exempt wells in the area to assess temporal trends and evaluate their impacts on water levels.
- Treated effluent release data to the SCR from RWRD
- Natural stream flow event data from U.S. Geological Survey (USGS) was evaluated to determine their roles related to local ground water levels.

# 2.0 Hydrologic and Hydrogeologic Setting

## 2.1 Subsurface Geology

The CTRDN hydrologic study area is centered at the confluence of the Rillito and Canada del Oro Wash (CDO) with the Santa Cruz River in Pima County, Arizona **(Figure 2-1, Site Map)**. The area described with future proposed projects is outlined and is within this hydrologic study area (Kimley and Horn, 2011); (Huckelberry, 2010a). That area is generally from Sweetwater Road to Ina Road and between Silverbell Road and just east of Interstate 10 Highway. The hydrologic study area for this report begins in the vicinity of Sweetwater Road and runs along the corridor of the Santa Cruz River floodplain northwesterly to Avra Valley Road . The Rillito (translated as Little River) is the largest tributary to the Santa Cruz River and the CDO is also a major tributary. Flows on the Santa Cruz River are perennial in this area due to discharge of effluent at the Roger Road and the Ina Road Wastewater Treatment facilities. For purposes of this report CTRDN is the hydrologic study area and encompasses the Corazon de Tres Rios Del Norte described in other reports and documents (Kimley and Horn 2011; Huckelberry 2010a and 2010b).

The sedimentary units underlying the CTRDN study area are interconnected and from the ground surface downward in descending order are the recent surficial alluvial deposits, Fort Lowell Formation or basin fill Tinaja Beds and the Pantano Formation, The recent alluvial sand and gravel deposits along the Santa Cruz River floodplain in the CTRDN study area vary from 50-100 feet (Davidson, 1973). The Fort Lowell formation (Qf) unconformably underlies the recent alluvium and is approximately 50 feet thick in the study area. The Qf consists primarily of interbedded unconsolidated sand, clayey sand, gravel and sandy to gravely clay (Anderson, 1988).

The surficial deposits and Fort Lowell formation are the most permeable portions of the aquifer, and are mostly unsaturated in the areas along the Santa Cruz River floodplain. However, where water levels are above 150 feet bls, the Fort Lowell unit becomes saturated but does not comprise a significant source of groundwater for the area. However, these two formations did comprise a portion of the shallow groundwater which dominated the area prior to the 1950s and are the primary recharge media for treated effluent and storm water in the area. Underlying the Fort Lowell formation in the Study Area are the upper Tinaja beds, which generally consist of unconsolidated to semi-consolidated and/or moderately cemented, sand to clay and clayey sand and gravel. This unit varies from less than 600 feet to up to 800 feet thick in the Study Area and is probably about 200 feet thick west of the Santa Cruz Fault west of the Santa Cruz River at the confluence of the Rillito (Anderson, 1988) The upper Tinaja beds contain from about 40% to 60% fines in the southern portion of the Study Area south the Santa Cruz River/Rillito confluence. North of this area the upper Tinaja beds are more coarse-grained ranging from 10% to 40% fines in the middle portion of the study area. However, the occurrence of fines increase approaching the northern portion of the Study area and the Rillito Narrows, and the thickness of the Upper Tinaja thins to 300 feet thick (Anderson, 1988). The upper Tinaja unit is the primary water-bearing unit in the Cortaro portion of the Study Area.

The middle Tinaja Beds underlie the upper Tinaja beds and are typically gravel and conglomerate to gypsiferous and anhydritic clayey silt and mudstone. They are typically not as productive as the upper Tinaja beds and thicken from south to north approaching the Rillito Narrows.

The thickness of saturated Tinaja sediments varies from the 800 to over 1000 feet in the Study Area. The sediments within the upper Tinaja beds are generally unconsolidated. However, consolidation and cementation within the Tinaja beds typically increase with depth, and intervals of greater consolidation and cementation encountered at greater depths yield less water to wells than those intervals above them. Since sediments from both the Fort Lowell formation and the upper portion of the Upper Tinaja beds are relatively permeable, the Fort Lowell-Upper Tinaja contact is usually insignificant hydrologically with regard to the movement of groundwater (Anderson, 1988)

The Pantano Formation underlies the Tinaja formations and is described as silty and pebbly sandstone, mudstone, and gypsiferous mudstone to moderately cemented gravel (Anderson, 1988, Davidson 1973). It can also contain mega-breccia, tuff beds and interbedded volcanic flows. Hydrologically it is a very poor water releasing material and is generally unproductive for water supply.

The Tucson Mountains and basement rock west of the study area and the Santa Cruz River consist of volcanic fractured rock that is very unproductive for yielding water from larger municipal wells. This basement material is as shallow as 400 feet bls in areas west of the Santa Cruz River and 300 feet bls near Avra Valley Road (Anderson, 1988).

## 2.2 Managed Recharge Facilities in the Study Area

The CTRDN study area lies within the (Upper) Santa Cruz River Managed Underground Storage Facility (SCRMUSF) and portions of the Lower Santa Cruz River Managed Recharge Facility (LSCRMRF) The SCRMUSF lies from the outfall of the Roger Road Wastewater Treatment Facility near El Camino del Cerro Road to Ina Road on the Santa Cruz River and is approximately 5.1 miles long. The facility is owned and operated by The US Bureau of Reclamation (BOR) and the City of

Tucson (COT). The LSCMRF is a cooperatively managed recharge facility, with owners including Pima County, COT, BOR, towns of Marana and Oro Valley, Cortaro Marana Irrigation District (CMID), Metropolitan Domestic Water Improvement District, Flowing Wells Irrigation District and the Avra Valley Irrigation District. The project runs approximately 17.9 miles in the Santa Cruz River bed from Ina Road to Trico Road, recharging effluent within the permeable channel. Approximately 6.2 miles of the LSCMRF is within the CTRDN study area. A typical view of riparian habitat along the perennial low-flow effluent channel within the LSCMRF is provided in **Figure 2-2**.

According to the Arizona Department of Water Resources (ADWR), a Managed Underground Storage Facility (MUSF) Permit allows water to be discharged to a naturally water-transmissive area, such as a streambed, and percolate into the aquifer without the assistance of a constructed device. All surface flows entering and exiting a managed underground storage facility must be measured at the facility boundaries in a manner consistent with ADWR's measuring device rules (R12-15-905 & 906). At the SCMRF and LSCMRF effluent is measured by discharge metering at the Roger Road and Ina Road Wastewater Reclamation Facilities adjacent to the Santa Cruz River, and flow at the Cortaro Road Bridge and Trico Road Bridge gauging stations managed by the USGS. Based on the MUSF Storage Permit, each facility owner is allowed up to 50% credit of their effluent that recharges the LSCMRF. Typical daily effluent base flows on the SCR vary diurnally and range from 20 cubic feet per second (cfs) to 80 cfs at the USGS gage at Cortaro Bridge. Recent treated effluent discharge from the combined Ina Road and Roger Road Wastewater Treatment Facilities has ranged from 51,000 acre-feet (AF) in 2010 to 53,200 in 2005.

## 2.3 Rates of Recharge for Effluent and Storm Water

From late 2003 (year of the LSCRMRF inception) to 2005 recharge of effluent was significantly less than recharge of effluent on the Santa Cruz River in the early 1990s and other wetter periods (Tucson Water, 2011). This is attributed to lack of flood scouring that typically enhances recharge of effluent. Recharge rates averaged 2.8 acre-feet/mile/day (AF/mi/day). More recently in 2006 and 2007 with significant larger flows on the Santa Cruz River, recharge rates of effluent have increased to an average of 3.15 AF/mile/day for the entire 17.9 mile reach. In 2008, recharge was as high as 4.1 AF/mi/day (**Figure 2-3).**

Recharge rates from the SCRMUSF, extending from Roger Road to Ina Road, shows highly variable recharge rates, ranging from 0.50 AF/mile/day in 2004 to 5.9 AF/mile/day in 2008 (10,992 AF). The average recharge rate (2000-2010) was 3.33 AF/mi/day. In 2010 recharge rates were 3.6 AF/mi/day **(Figure 2-3).**

In 2003 the Aspen Fire in the Catalina Mountains resulted in floods on the CDO, Rillito and SCR with a fine black silty ash, probably clogging the channel, and reducing recharge rates. Contributing flows from the CDO and Rillito may cause more intense scouring in the SCRMRF during large flood flows and may be the reason why the SCRMRF has typically higher recharge rates than the LSCMRF in years with larger storm events. It also appears that higher volume winter events above 1,000-2,000 cfs contribute to sustained increased recharge rates (2007-2008 winter events) more than increased summer flows due to the scour for both recharge facilities. This may be a result of less buildup of a confining "smutzdecke", a gelatinous biofilm matrix of microorganisms and algae, after the winter scouring flows. However the effects appear more pronounced in the upper SCRMUSF. Finally, the 50-

year flood events during the summer of 2006 on the SCR appear to have influenced recharge rates at both managed facilities **(Figure 2-3**).

Several earlier studies indicated higher overall recharge rates of between 4.4-6.7 AF/mi/day (Galyean, 1996; Sebinek, Cluff and DeCook, 1972). Flood events of 2000 cubic feet per second (cfs) or greater were found to restore effluent recharge rates by scouring the river bottom, removing a sealing smutzdecke layer (Lacher, 1996).

Several studies have also described recharge of storm water. Osterkamp (1973) estimated a recharge rate on the Santa Cruz River to be approximately 500 af/mile/yr of river reach in this vicinity. Other researchers had similar estimates, including Burkham (1970) at 480 AF/mi/yr and Cluff, Katz and Scovill (1987) 450 AF/mi/yr. However, this amount may be low due to the larger flood flows that have occurred in this area since the studies. The flood of record in 1983 (61,000 cfs), and other large flows in 1990 (28,000 cfs), 1993 (38,000 cfs), and 2006 (41,000 cfs) may have allowed for a larger average recharge rate over the last three decades. However, this may be offset by narrowing of the Santa Cruz River and installation of hardened bank protection.

The storm-water recharge contribution of the three mile stretch of Rillito to the study area estimated at closer to 600-700 AF/mi/yr (Cluff, Katz and Scovill, 1987). The one mile of CDO may also contribute about 300-400 AF/yr of storm-water recharge. Mountain front recharge from the Tucson Mountains also contributes to the sub-basin comprising the study area. Osterkamp (1973 estimates mountain front recharge along the eastern flank of the Tucson Mountains at 50 AF/mile of front.

The sources of recharge have played a substantial role in maintaining water levels in the area north of El Camino del Cerro/Ruthrauff to 150 feet bls and above along the Santa Cruz River. South of the Santa Cruz River, a “put and take” reclaimed water recharge facility is maintaining current water levels of between 150-160 feet below land surface (bls).

## 2.4 Water Wells, Use and Pumping

**Figure 2-4** shows the wells within the CTRDN hydrologic study area. The referenced well numbers can be cross referenced in Appendix 1 to view other information such as well owner, State registration number (Wells 55), well type and Groundwater Site Inventory identification. Wells with recent water level data in the area are mostly owned by Tucson Water (south of Ina Road) and CMID (north of Ina Road). Many of these are production wells to provide water for potable use or agricultural irrigation. Pima County also has several monitoring wells stemming from the south end to the north end of the study area. Coverage for water levels is sufficient except in the area of the confluence of the SCR Rillito and CDO. Most of the wells in this area are owned by Cal Portland Cement and access to their data is more difficult for public agencies.

**Figure 2-5 s**hows total pumping from non-exempt wells from Roger to Cortaro Roads since 1984, juxtaposed with total annual flow since 1980 and water level for a Tucson Water well (A-021A; D-13-12-12ABA) near the downstream end of the confluence of the SCR, Rillito and CDO, just east of Silverbell Road. Pumping amounts ranged from a low of 10,265 AF in 1984 with a peak in 1997 of 23,125 AF. In 2009, the last year of available record, the pumpage was 16,540 AF. Note that the values for total annual surface flow consist of a combination of both effluent and storm water flow volumes.

This figure illustrates that the largest variable affecting water levels in the confluence area appears to be the influence of flood flows. The constant effect of pumping, averaging about 17,100 AF/yr in this area will cause water levels to decline unless the effluent base flow (45,000-55,000 AF/yr) is supplemented with larger magnitude cumulative storm runoff approaching a total of 100,000AF/yr. In addition, removal of a large portion of the effluent base flow as is projected for the SCMUSF will cause water levels to decline at an even higher rate. This phenomenon is confirmed in the area of pumping from Cortaro Road to Tangerine Road. As shown in **Figure 2-6** pumping was highest in this region in 1987 at 26,230 AF and has gradually declined from 23,000 AF in 2003 to 9,950 AF in 2009. Average pumping in this area was 20,400 AF/yr over the 1984-2009 record. However, the major flood years of 1983, 1993 and 2006 reversed the water level declines for about two to three years within a COT index well (Y-001A, D-12-12-22DCD), after which water elevations continued to drop. This phenomenon will be explained in more detail in section 3-3.

Over 550 exempt wells are found within the hydrologic study area, primarily used for domestic purposes by public and private entities. These wells are only permitted to withdraw a maximum of 35 gallons per minute. Since the owners are not required to report water withdrawals to the ADWR, pumping volumes from these wells can only be estimated. In their report on groundwater withdrawals in shallow groundwater areas, Pima Association of Governments (2008) assumed that the annual withdrawal from exempt wells was one acre-foot per year based on discussions with ADWR. Using the one acre-foot per year figure, pumping from these wells is insignificant compared to the overall pumping by the non-exempt wells in the CTRDN Study Area and was not used in the analysis described above. However, the identification of the exempt wells and an additional 300 plus monitoring wells is provided as a means to show the potential for filling gaps in water level data for this area.

# 3.0 Groundwater Level Evaluation

## 3.1 Current Water Level Conditions

The most recent comprehensive water-level data for the CTRDN hydrologic study area is from December, 2010 through March 2011. Water levels from numerous wells in the vicinity were collected from several sources:

- The Arizona Department of Water Resources (ADWR) Groundwater Site Inventory (GWSI) was accessed for numerous wells.
- Monitor well data from the Pima County Regional Wastewater Reclamation Department (RWRD) and Pima County Environmental Quality Department Division of Solid Waste were collected with comprehensive water-level data for the CTRDN area.
- Tucson Water also had extensive water level data for their wells in the area.
- Cortaro Marana Irrigation District also had recent water-level data for their wells in the area.

Additional water-level data from the same sources for previous years were used to supplement the data for the 2010-2011 period as needed. Late winter/ early spring data were plotted as most intense pumping was in the summer months.

**Figure 3-1** shows water-level elevations for the period of December, 2010 through March, 2011. Near Ruthrauff Road, the direction of groundwater movement is northwesterly, then moves more northerly near the confluence of the Rillito CDO and Santa Cruz River, and then again moves northwesterly again north of Ina Road. Groundwater movement becomes more west-northwesterly as it approaches the narrows and Avra Valley Road.

The slope of the water table or gradient varies through the study area. In the southern portion of the CTRDN the slope averages about 10 feet/mile (0.0019 ft/ft). Near the confluence of the Rillito, CDO and Santa Cruz River the water table flattens to about 7 feet/mile (0.0013 ft/ft). A recent report (Brown and Caldwell, 2008) showed a potential mound in the California Portland Cement Orange Grove Pit, immediately north of the Rillito and east of the Santa Cruz River, where the 2008 pit water surface was approximately 20 feet above the 2010/11 levels in surrounding wells. Water levels in wells to the south of the pit in 2008 were equivalent to the pit levels, indicating a recharge mound. The convergence of the three watercourses in this area appears to foster rapid infiltration of flood waters and subsequently upstream effluent. Figure 3-1A illustrates the mound and slope in north-south cross section. Figure 3-1B shows an east-west cross section of the water table near Ina Road.

The slope of the water table increases significantly to almost 40 feet/mile (0.007 ft/ft) from Ina Road to Cortaro Road. Northwest of Cortaro Road in the Continental Ranch area the water table slope flattens to about 25/feet/mile (0.005 ft/ft).

Depth to groundwater in the CTRDN study area varies from greater than 150 feet below land surface (bls) in the southern and northern portions of the study area to less than 110 feet bls near the confluence of the Rillito, CDO and Santa Cruz River **(Figure 3-2).** Near Ruthrauff Road along the Santa Cruz River depth to water is approximately 150 foot bls. Water levels increase to as much as 160 feet bls south, southeast and east of the Santa Cruz River along the Rillito. Moving northwest along the Santa Cruz River, depth to water gradually decreases to less than 110 feet bls along a narrow band of the Santa Cruz River Floodplain between the confluence of the CDO Wash and the Santa Cruz River to Cortaro Road. Depth to groundwater increases with distance from the Santa Cruz River to both the east and west and are slightly greater than 140 foot bls near the Study area boundaries south of Cortaro Road.

A recent report (Brown and Caldwell, 2008) showed a potential groundwater mound in the vicinity of the California Portland Cement Orange Grove Pit, immediately north of the Rillito and east of the Santa Cruz River. Here, the 2008 pit water surface was approximately 20 feet higher than the 2010/11 levels in surrounding wells. In 2008, groundwater levels in wells to the south of the pit were equivalent to the pit levels, indicating a recharge mound. The convergence of the three watercourses in this area appears to foster rapid infiltration of flood waters and upstream SCR effluent flow, resulting in groundwater mounding.

## 3.2 Historical Water Levels

The most reliable and complete source of water level data began in the early 1980s and has continued through 2010. Thus, our analysis evaluated water–level changes over two time periods: the overall 30-year period since 1980 and the period from 2000-2010 for comparison. **Figure 3-3** is a map of the CTRDN study area with hydrographs geographically spread across for comparison. Some of these hydrographs are listed later in larger view for discussion.

One of the longest and most complete water level records is for a Tucson Water Well (A-21A ; D-13-12-12ABA) near the downstream end of the confluence of the SCR, Rillito and CDO **(Figure 3-4)**. This well exhibits large fluctuations in water levels over the period 1981-2010, but suggests the ability of the aquifer to quickly accept recharge of large amounts of water when available, and yielding large amounts to removal in short periods. After the three largest floods of records in 1983, 1993 and 2006, respectively, water levels recovered 20-30 feet within 1-2 years after each event, suggesting the permeable sands and gravels in this area are very responsive to large recharging flows. Despite these large flood events and subsequent larger volumes of recharged treated effluent from discharge from the Roger Road Wastewater Treatment Facility, water levels had a gradual overall decline over the periods of record (1962-2010) of 0.83 feet per year, a 1 ft/yr decline from 1980-2010 and a 2.4 ft/yr decline from 2000-2010. Apart from 2006, the last decade has seen less rainfall and flood flows,

A summary the available periods of record for wells in the CTRDN for approximately 30-years (1980-2010) and 10-years (2000-2010) is provided in **Table 3-1**. Despite very large flood flows of record in 1983, 100-year flood) 1993 (50-year flood) and 2006 (50-year flood), overall rates for 10 representative well in the area still declined an average of 1.17 ft/yr. for the average 29.3 year period. However, during the drier 10-year 200-2010 period average water levels for 13 representative wells dropped an average of 2.34 ft/yr for the average 10.9 year period. This continued water-level decline means the pumping as described in Section 2-3 (40,000-50,000 AF/yr) exceeds the ability of the aquifer in the area to maintain water levels and suggests that some kind of additional groundwater replenishment is needed to restore or maintain water levels in this area.

## 3.3 Influence of Flood Flows and Cumulative Annual River Flows on Water Levels

As discussed, there appears to be a direct correlation between the annual volume of flow in the Santa Cruz River channel and groundwater levels measured in the CTRDN hydrologic study area from 1980 to 2010.[1] This physical hydrologic condition is clearly demonstrated by a comparison of annual runoff volume versus groundwater elevation, as shown at these well locations in **Figures 3-5 through 3-8:**

- Figure 3-5 SCR and CDO Wash confluence
- Figure 3-6 Curtis Rd and Interstate 10
- Figure 3-7 SCR and Rillito River confluence
- Figure 3-8 Linda Vista near Interstate 10

Dramatic increases in water levels occurred after the high volume years of 1983 and 1993, which were characterized by two of the largest floods on record for the Santa Cruz River. More subtle increases occurred during the relatively high volume years of 2000, 2005 and 2006, which had moderate to large storm water runoff events contained within the channel banks. In between the high volume surface flow years, water levels experienced significant declines throughout the CTRDN study area, despite a typical effluent base flow of 45,000-55,000 AF/yr. over the last two decades.

[1] Annual runoff volumes were not available from 1985 through 1989 for any of the USGS stream gauges located in the Tucson and Marana jurisdictions (Congress Street to Trico Road).

**Table 3-1**
**Water Level Changes Within and Adjacent to the Corazon De Tres Rios Del Norte Study Area**

| Well Location | 30 Year Record Change | 10 Year Record Change |
|---|---|---|
| D-13-13-27 CDD<br>(SCS Well No. 2) | 1981-2010 (29 yr.)<br>-36.6 ft., -1.26 ft./yr. | 1999-2010 (11 yr.)<br>-14 ft., -1.27 ft./yr. |
| D-13-13-20 DDC<br>(COT Well SF-001A) | 1979-2011 (32 yr.)<br>-66.5 ft., -2.08 ft./yr. | 2001-2011 (10 yr.)<br>-33.6 ft., -3.36 ft./yr. |
| D-13-13-17 ABC<br>(COT Well Z-004A) | 1981-2010 (29 yr.)<br>-46.8 ft., -1.61 ft./yr. | 1999-2010 (11 yr.)<br>-28.2 ft., -2.56 ft./yr. |
| D-13-13-07 DDC<br>(RWRD Well SC-02/02R) | | 2001-2011 (10 yr.)<br>-32.2 ft., -3.22 ft./yr. |
| D-13-13-06 DDD<br>(COT Well Z-015A) | 1981-2010 (29 yr.)<br>-37.6 ft., -1.30 ft./yr. | 2000-2010 (10 yr.)<br>-26.9 ft., -2.69 ft./yr. |
| D-13-12-12 ABA<br>(COT Well A-021A) | 1981-2010 (29 yr.)<br>-30.3 ft., -1.04 ft./yr. | 2001-2010 (9 yr.)<br>-22.7 ft., -2.52 ft./yr. |
| D-12-13-31 CDD<br>(COT Well Z-013A) | 1981-2010 (29 yr.)<br>-32.0 ft., -1.10 ft./yr. | 2001-2010 (9 yr.)<br>-22.9 ft., -2.54 ft./yr. |
| D-12-12-36 BAB<br>(CMID Well 36C) | 1982-2011 (29 yr.)<br>-44.0 ft., -1.52 ft./yr. | 2001-2011 (10 yr.)<br>-18 ft., -1.8 ft./yr. |
| D-12-12-27 DAC<br>(PCRWRD Well SC-04) | | 2001-2011 (10 yr.)<br>-30.6 ft., -3.06 ft./yr. |
| D-12-12-22 ADC<br>(CWUA Well) | Dec 1980-Jan 2011 (30 yr.)<br>-28.6 ft., -0.95 ft./yr. | 11/2000-1/2011 (10 yr.)<br>-29.1 ft., -2.91 ft./yr. |
| D-12-12-21 BAB<br>(CMID Well 21C1) | 1980-2011 (31 yr.)<br>-13.0 ft., -0.42 ft./yr. | 2000-2010 (10 yr.)<br>-25 ft., -2.50 ft./yr. |
| D-12-12-06 CDC<br>(PCRWRD Well SC-08) | | 2001-2011 (10 yr.)<br>-2.94 ft., - 0.29 ft./yr. |
| D-12-11-01 DDA<br>(USBR Well TA-38 PZ2) | 1984-2010 (26 yr.)<br>+2.5 ft., +0.1 ft./yr. | 2000-2010 (10 yr.)<br>-4.0 ft., -0.4 ft./yr. |
| | **Average Change –**<br>**29.3 yr., -1.17 ft./yr.** | **Average Change –**<br>**10.9 yr., -2.34 ft./yr.** |

### 3.3.1 1983

In 1983, the annual flow volume in the Santa Cruz River at Cortaro Road was just over 225,000 acre-feet (USGS, 2011). The majority of this volume was due to flooding along the river channel as a result from heavy rainfall (as much as 11 inches) occurring over Pima County from September 27 to October 3 caused by tropical storm Octave with a peak flow of 65,000 cfs at the Cortaro Road gage (Roeske et. al.,1989). After this flood event, water levels increased about 16 to 29 feet within several months to a year in wells close to the Santa Cruz River from Roger Road to the north end of Continental Ranch **(Figures 3-5, 3-6, 3-8)**

### 3.3.2 1993

A very large volume of annual flow was also recorded in 1993 (almost 185,000 acre-feet), mainly due to flooding caused by moderate to heavy rains throughout Pima County mixed with snow melt from January 5$^{th}$ through January 19$^{th}$ with a recorded peak of approximately 40,000 cfs (PCDOT/FCD, 1993). After this flood event, groundwater levels within the CTRDN study area increased in wells from almost 8.5 feet near Roger Road to over 37 feet at the north end of Continental Ranch. More pronounced recoveries in water levels were recorded from the wells downstream of the Rillito and Canada Del Oro Wash confluences is most likely attributed to the high volumes of flow draining from these watercourses during the initial stages of the storm event.

### 3.3.3 2006

The third highest annual volume over the last 30 years occurred in 2006 (98,540 acre-feet). The majority of this volume was the result of high volumes of storm water runoff from heavy rainfall on the fire impacted areas of the Santa Catalina Mountains during the summer monsoons (July 26 through August 1 with a peak of 40,900cfs . Groundwater levels at the southern and northern ends of the CTRDN study area only rose slightly after this event (approximately 2 to 6.5 feet). However, wells within closer proximity of the Rillito and Canada Del Oro Wash confluences did experience significant water level increases (14 feet to almost 27 feet). This suggests that much of the storm flows conveyed by the two tributary watercourses was recharged at the confluence with the Santa Cruz River. The lesser water-level recoveries observed in wells downstream of the confluence may be the result of the settlement of high volumes of finer sediment at the recession of the storms and the quick redevelopment of a clogging “schumuzdecke” materials via input of high nutrient effluent base flows and hot summer temperatures.

### 3.3.4 2000 and 2005

Two other years experienced high annual volumes of note, which positively influenced groundwater levels to a lesser extent. The annual volume in 2000 was 83,290 acre-feet, with much of the volume attributed to moderate storm flows in October and November. In 2005, an annual volume of 76,170 acre-feet was mostly the result of runoff from winter storms occurring in January and February. Many of the well water levels in the CTRDN study area either remained steady or increased slightly (up to 4 feet) shortly after these events.

The average annual flow volume for the remaining 25 years is approximately 53,600 acre-feet. Groundwater levels have primarily fallen during these years, with a notable sharp decline (25 to 36 feet) between Years 2000 and 2005. After the 2003 Aspen Fire on Mount Lemmon, the CDO and Rillito contributed flood flows with fine sediment ash adding to the partial clogging of the Santa Cruz River. Infiltration rates from 2004-2005 for the two managed recharge facilities were particularly low (1.50 AF/mi/day upper and 2.86 AF/mi/day lower facility), and also contributed to less recharge to the local aquifer, and subsequent water-level declines.

### 3.3.5 Groundwater Level Declines and Recoveries

The average annual stream volume in the Santa Cruz River near Cortaro Road from 1980 through 2010 was 69,000 acre-feet. Groundwater levels within the CDTRDN study area generally declined from 20 feet to about 47 feet during this time span. The highest groundwater level recoveries in the area occurred during the two years with very large flood flows in the Santa Cruz River, 1983 and 1993. These flood flows not only provided natural groundwater recharge to the area, they also scoured out the channel bottom, thus exposing coarser grained materials and increasing in-channel recharge of smaller storm water events and effluent discharges from the wastewater treatment plants.

A moderate flood event (11,400 cfs peak) in late July through early August of 2007 helped produce significant groundwater recovery near the center of the CDTRDN study area (Rillito and Canada Del Oro Wash confluences), but was not as effective in the downstream portions due to deposited fine sediment and redevelopment of bio-chemical clogging materials. Two other years, 2000 and 2005, had higher than the average annual runoff volumes that accounted for very modest groundwater recoveries. Small to moderate flood events (2000 – 6,900 cfs peaks) for these two years, respectively provided some channel scour and occurred during the Fall and Winter months keeping schmutzdecke re-growth minimal and allowed for increased in-channel recharge of effluent flows.

## 3.4 Water Balance Discussion

Overall pumping in the CTRDN hydrologic study area has varied from 30,000 to 35,000 AF/yr from 2000-2009. During this time period the two effluent recharge facilities have averaged recharge of about 3.6 AF/mi/day if adjusted upward by 10% to account for rain days that were not included in the calculations for the managed recharge facilities storage credits. The length of effluent wetting of the Santa Cruz River in this study area is approximately 13.5 miles from the Roger Road outfall to near Tangerine Road. This means the estimated amount of effluent recharge is about 17,740 AF/yr or about half of the average pumping from 2000-2009. The estimated amount of water in storage over one foot of aquifer in the study area, assuming a three mile width, 13.5 mile length and a specific yield of 0.20, is approximately 5,200 AF. The past 10-year declines based on numerous wells in the area (Table 3-1), shows an average decline of 2.34 ft/yr. Without effluent recharge, that decline could be as large as 5.75 ft/yr. Without some flood flow with effluent recharge during this drier period, declines could have been as much as 6.75 ft/yr. This discussion illustrates the need to continue recharge of good quality effluent, and other sources in the area and the opportunity to increase effluent recharge in the area through in-channel methods and potentially adjacent off-channel methods to reduce overdraft.

The amount of surplus effluent measured at the Trico Bridge, near the Pima/Pinal County line, has ranged from 13,300 AF in 2008 to 31,600 AF in 2004, with an average of about 24,000 AF/yr. Recharge of a portion of or much of this surplus amount into the study area could amount to a recovery of water levels and a reversal of the large declines in the area. It could even lead to a restoration of shallow water levels that could support additional riparian habitat. It should be noted that water levels in the Avra Valley, downgradient of the CTRDN study area, are recovering at a large rate of 2-3 ft/yr and is a direct result of recharge of Central Arizona Project (CAP) water, recharged effluent on the Santa Cruz River, and retirement of large parcels of irrigated farm land and subsequent reduced pumping volumes.

## 4.0 Future Recharge Scenarios

Based upon information from historical water levels, flood flows and pumping, it appears the CTRDN area has appreciable subsurface media that is capable of quickly recharging large amounts of treated effluent, stormwater and other sources of water. Current pumping regimes in the area appear capable of lowering water levels and increasing storage capacity within the aquifer to allow for recharge of water into future used or abandoned sand and gravel pits north and south of the Rillito and east and west of the Santa Cruz River. Of concern is the slope stability of the existing pits and what must be done to adapt them into recharge and recreational storage basins. Should excavated pits be targeted as recharge and/or recreational storage basins, there would be a critical need to perform thorough slope stability evaluations of these sites.

Surplus effluent is currently available based upon the amounts exiting the Pima/Pinal County line. However, in the CTRDN area south of Ina Road, treated effluent will be less abundant in the future from the Roger Road Wastewater Treatment Facility due to Tucson Water's goal of using most of it for recharge and recovery at an expanded Sweetwater Constructed Recharge Facility. Should the Orange Grove and Sunset pits be converted to constructed recharge facilities in the future, treated effluent would need to be transported to these pits from the Ina Road Wastewater Treatment Facility via new pipelines.

Based upon recent study by RFCD, the amount of available effluent may be further reduced due to planned water quality improvements of the treated effluent including reduced nutrient and turbidity levels that have, in the past, contributed to the formation of a sealing surface and reduced infiltration rates in the SCR. Coupled with planned reduced effluent flows along on the SCR, an assessment should be performed to see if enough effluent will actually be available for meaningful recharge to the Orange Grove and Sunset Pits and the Santa Cruz River.

The cooperating partners of the LSCMRF, the managed facility from Ina Road to Trico Road, have been evaluating enhanced recharge by use of abandoned low-flow channels in the SCR. In addition, grade control structures have been proposed by RFCD (2008) to correct issues with effluent undermining low-flow bank protection from Cortaro Road to just south of Avra Valley Road. The grade control structures could potentially be designed to serve as structures to back up effluent as a constructed in-channel facility. The water table in this area should be deep enough to allow the unsaturated zone to serve as a storage basin, provided that CMID and Tucson Water continue to pump their 10,000-20,000 AF/yr of groundwater and recharged effluent in this area for agricultural and domestic use.

## 5.0 Findings

The CTRDN hydrologic study area is a complex confluence of three major water courses, with many factors influencing the periodic rise or ongoing fall of subsurface water levels. In addition, the increasing contribution of treated effluent that is discharged and eventually recharged to the Santa Cruz River influences the maintenance of water levels and riparian habitat in the CTRDN area.

Based upon the information presented and discussed above, the following are key evaluation findings:

- Sedimentary units in the hydrologic evaluation area include from the surface to bedrock: Surficial deposits, Fort Lowell Formation, Tinaja Beds, Pantano Formation, and the Tucson Mountain basement bedrock. The surficial deposits and upper Fort Lowell Formation consist of permeable sands and gravels, which accommodate rapid recharge of stormwater and effluent via stream channels and potential surface impoundments. The lower Fort Lowell Formation and Tinaja Beds provide most of the saturated sediments for potable, agricultural and industrial water use.

- Current sources of recharge in the CTRDN include stormwater from the Santa Cruz, Rillito and CDO watercourses, treated effluent from the Roger Road and Ina Road Wastewater Treatment Facilities released to the Santa Cruz River, and recharge basins at the Sweetwater Effluent Recharge Facility.

- Based upon data from the Santa Cruz Managed Effluent Recharge Facility (SCMUSF) from El Camino del Cerro to Ina Road, recharge rates have varied from 0.50 to 5.9 AF/mi/day since inception in 2000, with an average rate of 3.33 AF/mi/day. The actual recharge rate is likely to be about 8-10% higher because storm days were not used in the calculations.

- Based upon data from the Lower Santa Cruz Managed Effluent Recharge Facility (LSCMRF) from Ina Road to Trico Road, recharge rates have varied from 2.83 to 4.06 AF/mi/dy since inception in 2004, with an average rate of 3.15 AF/mi/dy. The actual recharge rate is likely to be about 8-10% higher because storm days were not used in the calculations.

- Estimated historic recharge rates of treated effluent from the 1970s-1990s prior to the implementation of both the SCMUSF and the LSCMRF ranged from 4.4-6.7 AF/mi/day. However, these periods were much wetter than decade 2000 with larger annual storm flows to scour the bottom of the Santa Cruz River and increase recharge rates.

- Pumping in the hydrologic study area has been considerable over the last 27-years, averaging 17,100 AF/yr from Roger to Cortaro Roads from 1984-2009, with recent 2009 pumping at 16,540 AF. Pumping from Cortaro Road to Tangerine Road averaged 20,400 AF/yr from 1984-2009. However, recent 2009 pumping was 9,950 AF. The two primary pumping groups are Tucson Water and Cortaro Marana Irrigation District.

- Water levels are shallowest at the confluences of the Santa Cruz River, Rillito and CDO Wash with a narrow band of contours 110 feet bls and less along the Santa Cruz River corridor from Sunset Road to Ina Road. Water levels gradually increase to 150 feet bls and above farther

northwest near Twin Peaks Road and the Santa Cruz River and farther southwest and south of El Camino del Cerro.

- CTRDN ground-water levels appear to fluctuate the most in the area of the confluences of the Santa Cruz River, Rillito and CDO. Annual flow in the Santa Cruz River appears to be directly correlated with water-level recovery, especially with wells near the confluence.

- The direction of groundwater movement is northwesterly. However, the slope of the water table is almost flat northwest of Sunset Road and the Santa Cruz River to Ina Road. The slope steepens significantly to 40 feet/mile from Ina to Cortaro Roads and towards Twin Peak Road, and then lessens to 25 feet per mile near Avra Valley Road.

- Water levels in the CTRDN area have had varied fluctuations over the last 30 years. Overall, water levels have had an average decline of approximately 1.2 ft/yr over 29 years based upon the ten wells with available record. Over the last eleven years the average water level decline was approximately 2.34 ft/yr based upon thirteen wells with available records for the period.

- Despite overall water level declines for both the last 30-year and 10-year periods, water levels in numerous wells recovered from 10-35 feet within one year after the large floods of record in 1983 and 1993 and to a lesser extent in 2006. However, these recoveries were not sustained due to subsequent years of lesser flood flows and ongoing municipal, agricultural and industrial well pumping.

- The overall water balance for the last 10 years in the CTRDN area has shown a net loss of water in storage due to almost a two for one difference in pumping versus recharge of effluent, coupled with drier than the previous two decades (1980-2000) flood flow recharge and channel scouring. Channel recharge of effluent has helped to reduce the 2.34 ft/yr decline by as much as 3 feet/yr.

- Future projected reduction in discharge of treated effluent from the Roger Road Wastewater Treatment Facility may increase current water level declines in the CTRDN area between Ruthrauff Road and Ina Road. It is uncertain how much larger flood flow events could reverse this projected trend. Future recharge of surplus treated effluent into the Sunset and Orange Grove pits with enhanced in-channel methods will help to reduce the decline trend in this area.

- Future recharge and pumping scenarios may affect groundwater levels in the CTRDN area. The CTRDN area hosts subsurface media capable of quickly recharging large amounts of treated effluent, stormwater and other sources of water. Current pumping regimes in the area diminish water levels and increase storage capacity within the aquifer to allow for recharge of water into used excavated sand and gravel pits.

- Grade control structures have been proposed by RFCD (2008) to aid in the remediation issues associated with effluent undermining the low-flow bank protection from Cortaro Road to just south of Avra Valley Road. The structures could potentially be designed to back up effluent for use as a constructed in-channel recharge facility. The water table in this area should be deep enough to allow the unsaturated zone to serve as storage, provided that CMID and Tucson Water continue to pump groundwater and recharged effluent for agricultural and domestic uses.

- Generally, current water level data for the CTRDN hydrologic study area are adequate. However, there is a lack of available public water-level data near the confluences of SCR, Rillito and CDO. This land is owned and controlled by Cal-Portland Cement Company. The lack of wells and access to existing wells is problematic and represents a gap in annual groundwater data for this area, thereby limiting our understanding of groundwater occurrence and changing conditions in this area

- No evidence of perched water levels in wells was apparent during this study with the exception of two Bureau of Reclamation wells near the CAP canal north of Avra Valley Road. The presence of cottonwoods and willows in an area just north of the alignment of Orange Grove Road west of the SCR and east of Silverbell Road suggests the possibility of perched water. No wells or piezometers were close enough to confirm a perched water condition in this area.

## 6.0 Recommendations

Based on the findings from this evaluation, the following recommendations have been developed for further evaluation and consideration:

- Use the data from this report to build upon, modify and update the current Tres Rios Del Norte model. Then use the model to assess different recharge and pumping scenarios to maintain adequate water levels to recharge effluent in the Orange Grove and Sunset pits and increased recharge rates on the SCR due to improved water quality and potential grade controls north of Cortaro Road.

- Consider diversion of effluent to the old Pima County owned pit for multi-purpose recharge and riparian restoration at the Orange Grove Road alignment, west of the SCR and east of Silverbell Road. Determine the suitability of this area for multi-purpose recharge and riparian restoration.

- In conjunction with the effluent diversion evaluation noted above, construct shallow piezometers in the confluence area of the CDO and the SCR. Evaluate seasonal groundwater occurrence and conditions, including a suspected shallow groundwater table in the area

- Further evaluate in-channel constructed recharge of effluent from Cortaro Road to Avra Valley Road to maintain water levels in that part of CTRDN and allow for accumulation of 100% storage credits for the effluent owners.

- Optimize recharge in the CTRDN area to sustain the existing riparian corridor adjacent to the Santa Cruz River and maintain groundwater levels

- Obtain permission from Cal Portland Cement to access their wells and use them as part of a water level monitoring program in accordance with Pima County's plans for long-term development of the CTRDN.

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# FIGURES

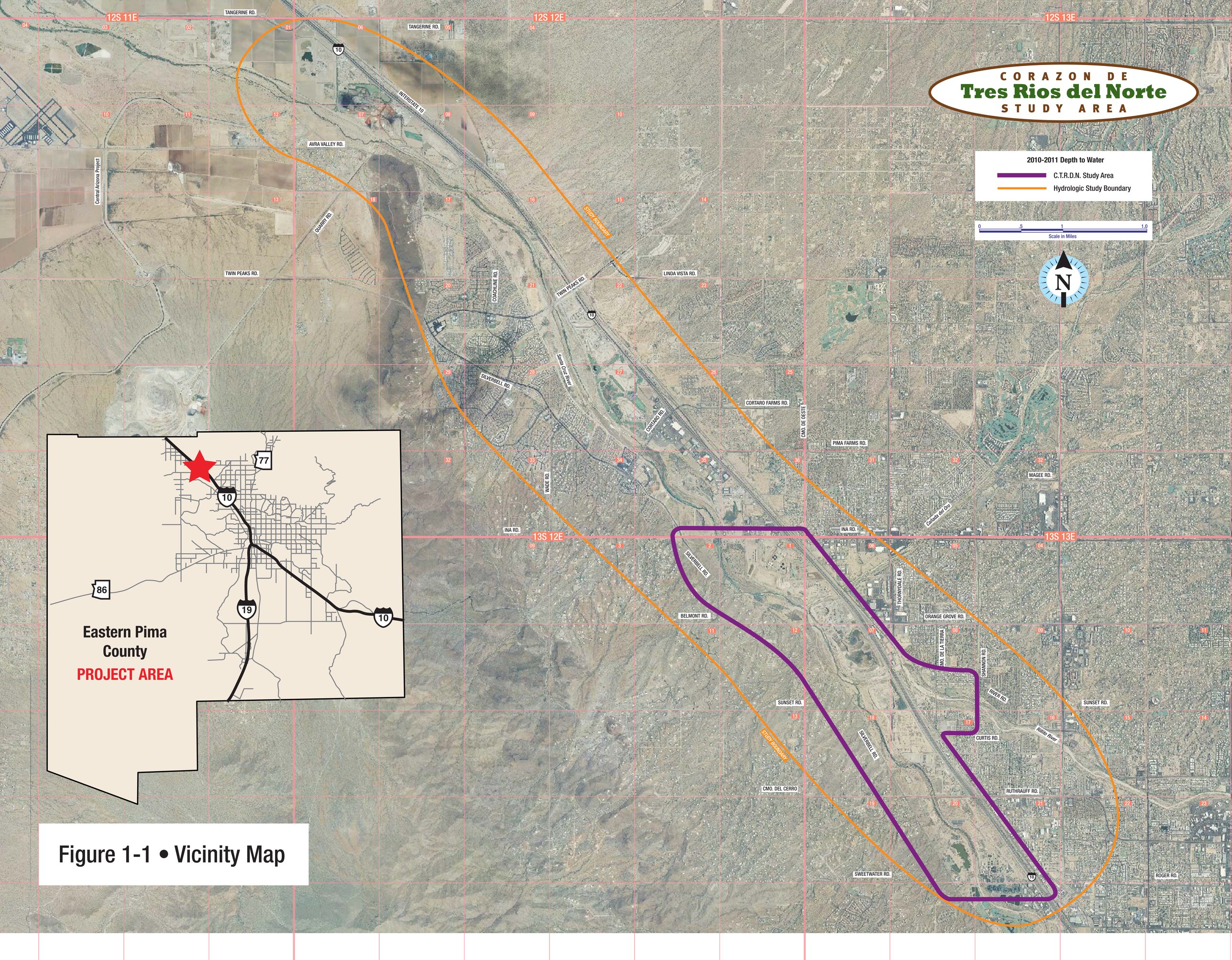



Figure 1-1 • Vicinity Map

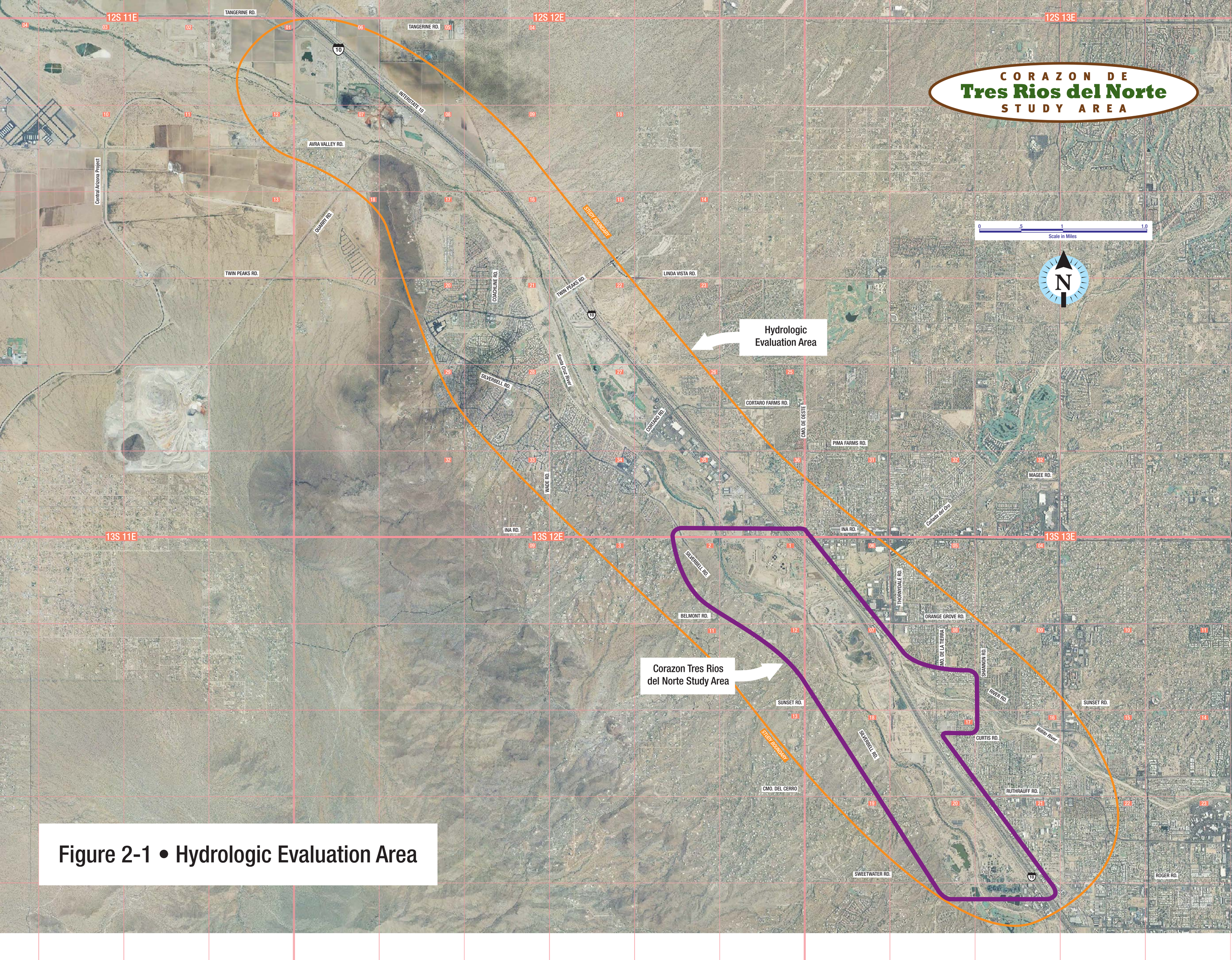
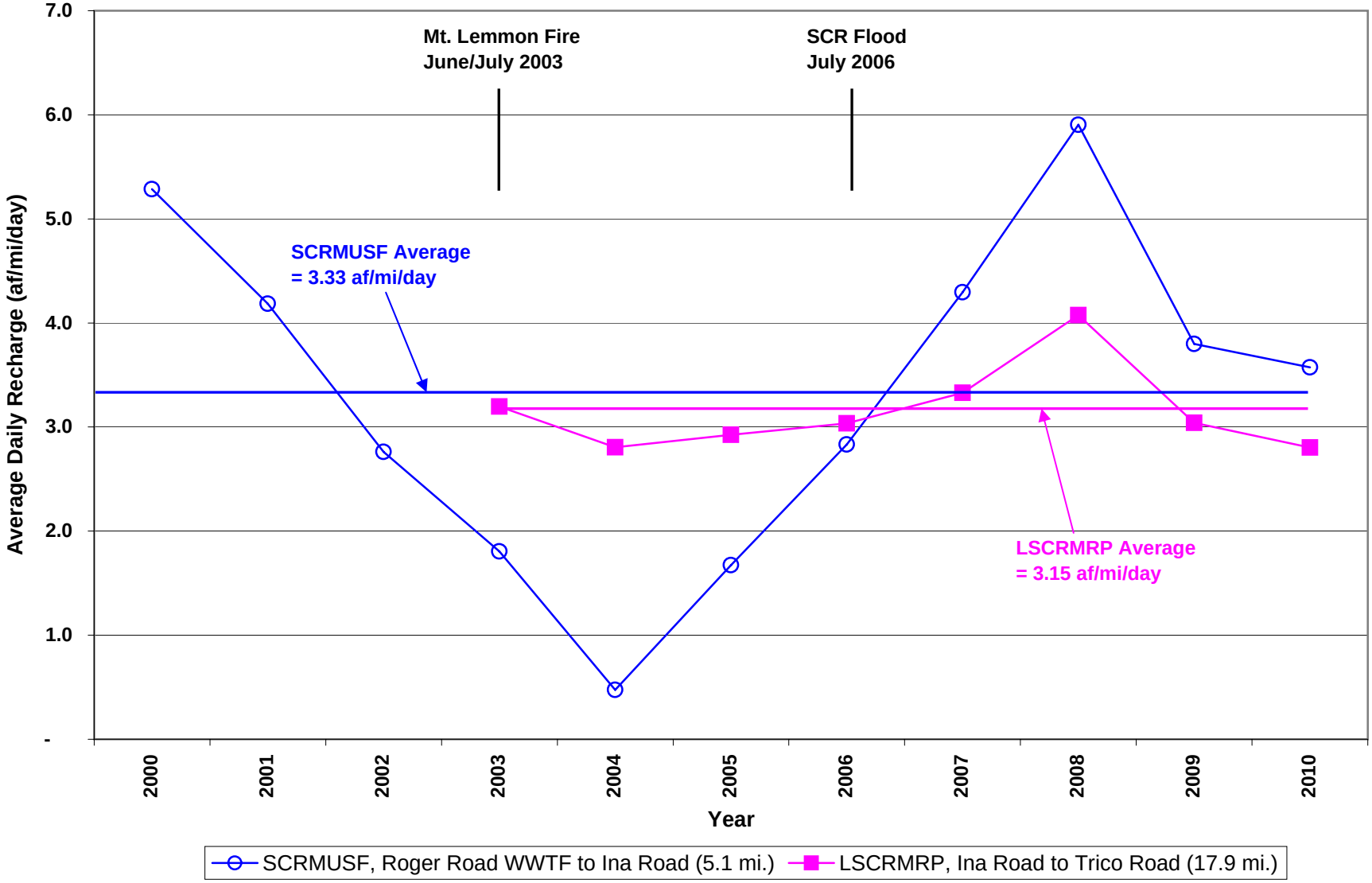



Figure 2-1 • Hydrologic Evaluation Area

Figure 2-2  Lower Santa Cruz Managed Recharge Facility North of Cortaro Road

**Figure 2-3**
**Average Annual Daily Recharge Rates for Managed Recharge Facilities in the CTRDN**



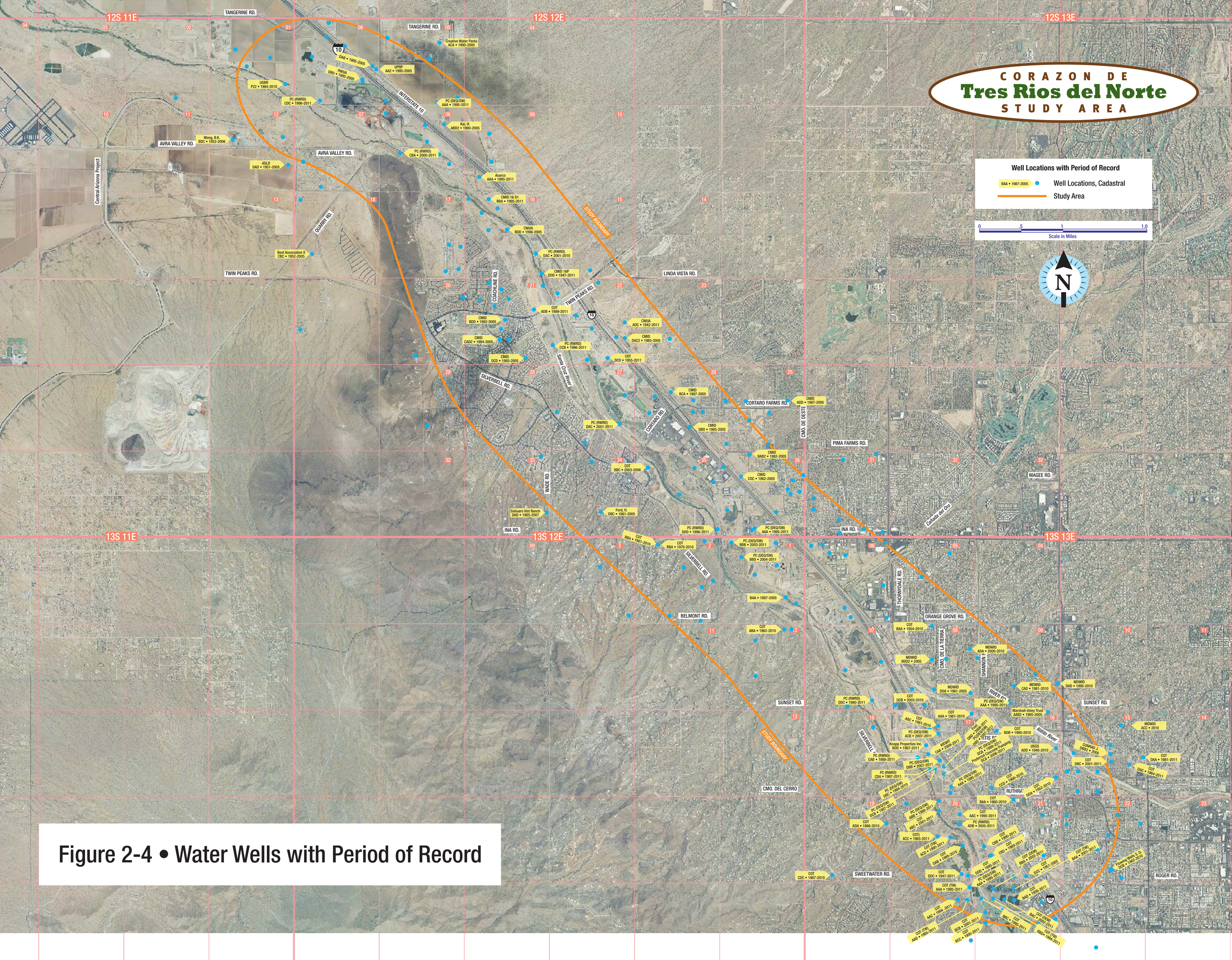



Figure 2-4 • Water Wells with Period of Record

**Figure 2-5**
**Runoff/Pumping (Roger Road - Cortaro Road)**
**vs. Depth to Groundwater (CDO to SCR Confluence Area)**

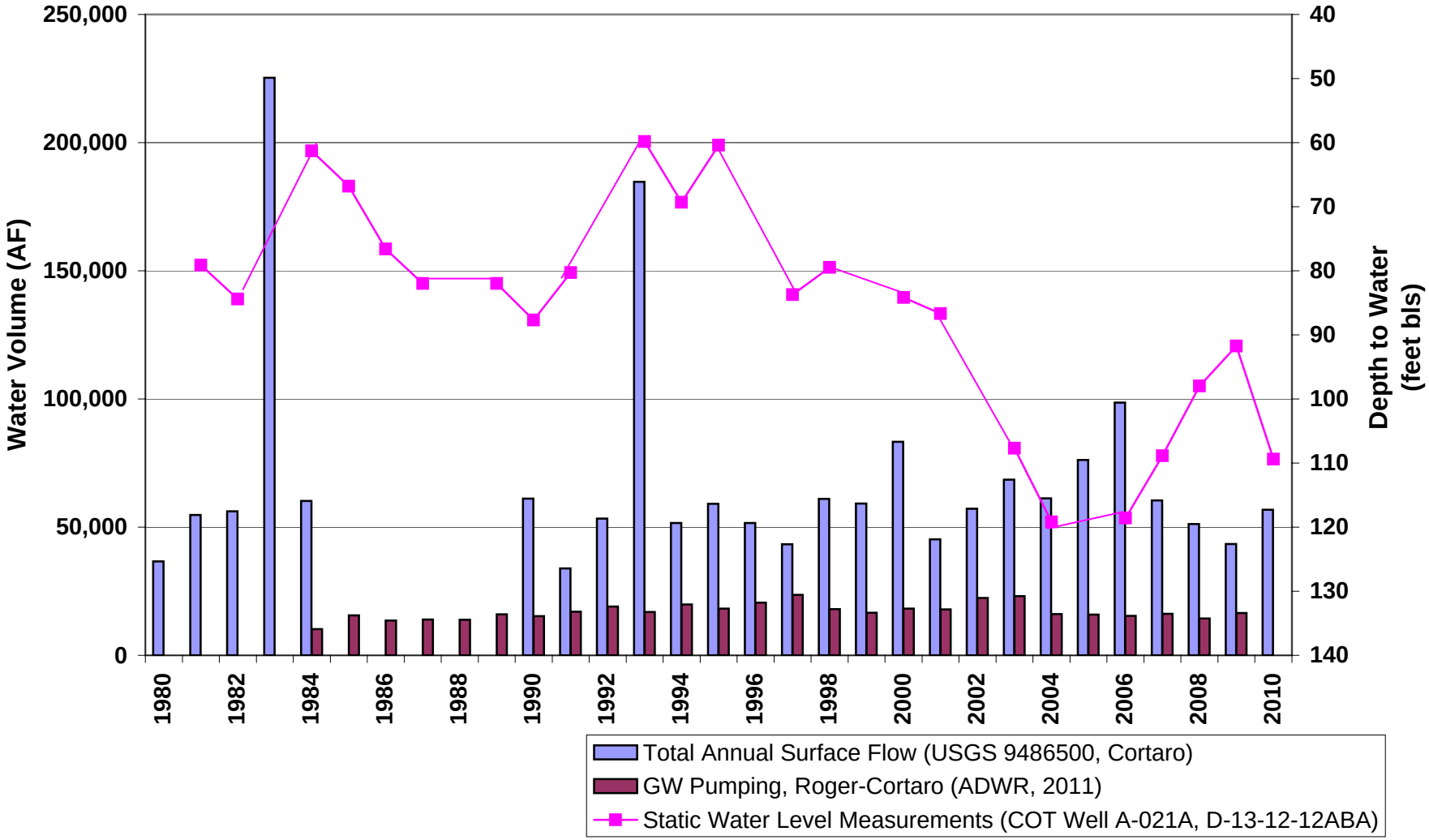
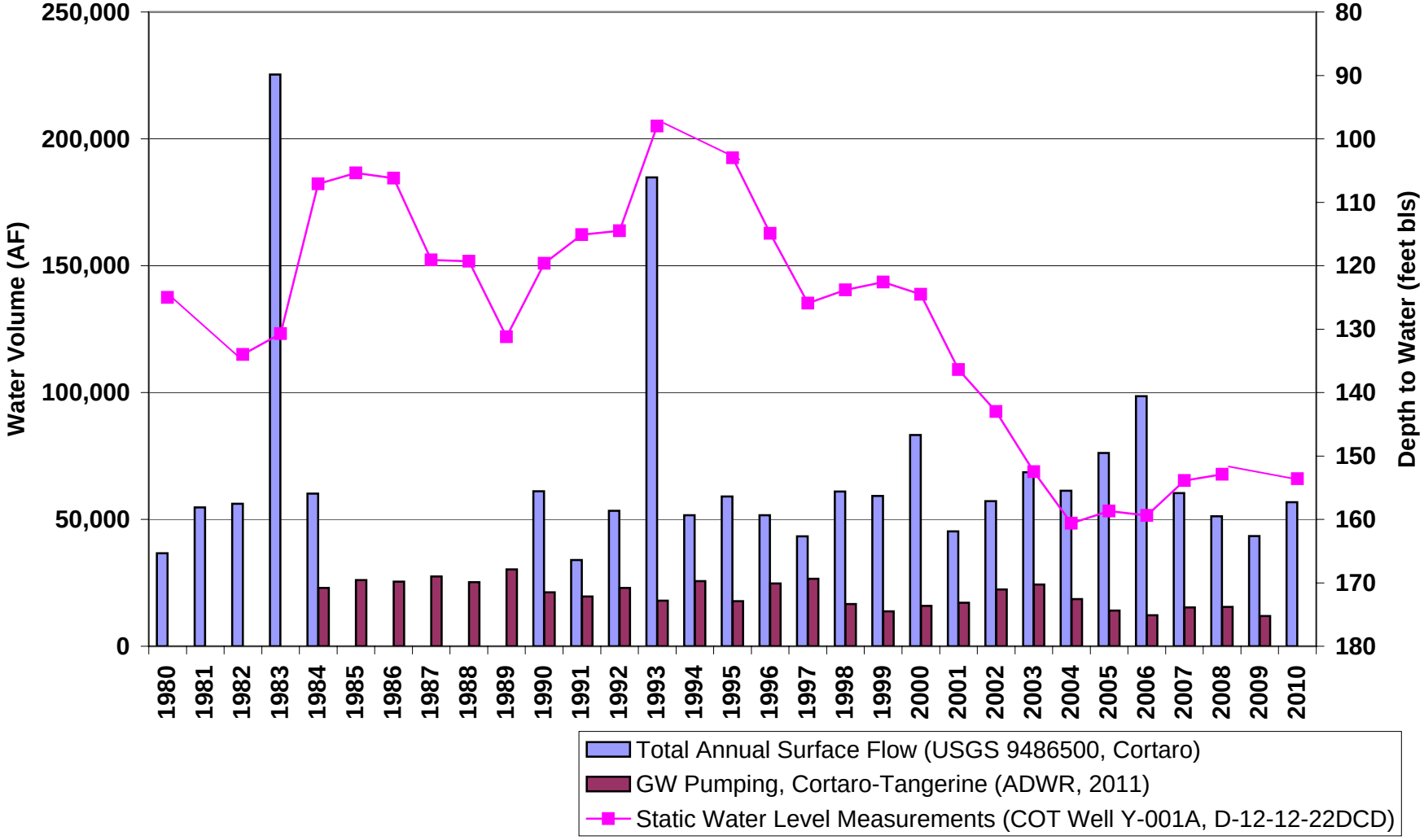


**Figure 2-6**
**Runoff/Pumping (Cortaro Road to Tangerine Road)**
**vs. Depth to Groundwater (between Cortaro and Twin Peaks Roads)**



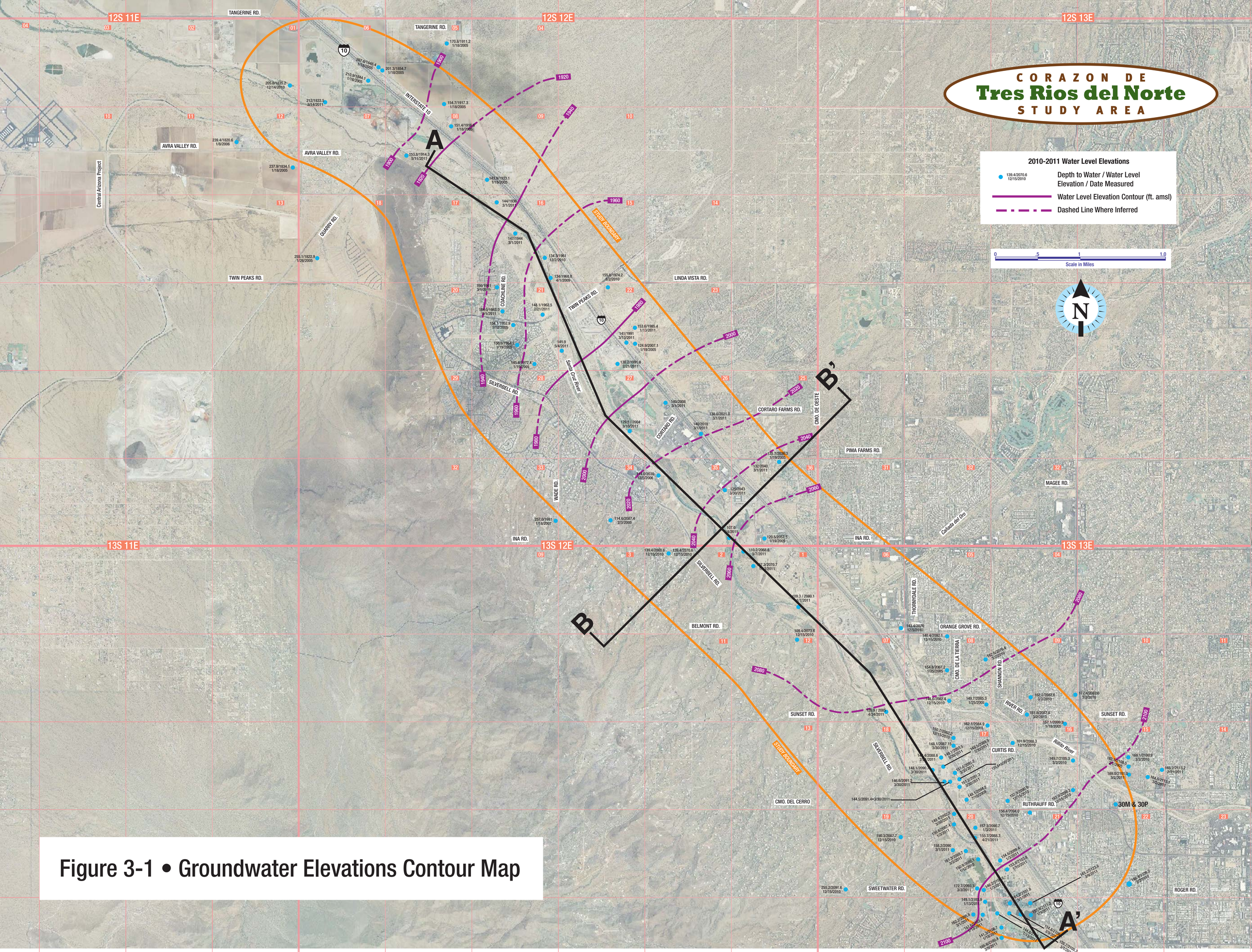



Figure 3-1 • Groundwater Elevations Contour Map

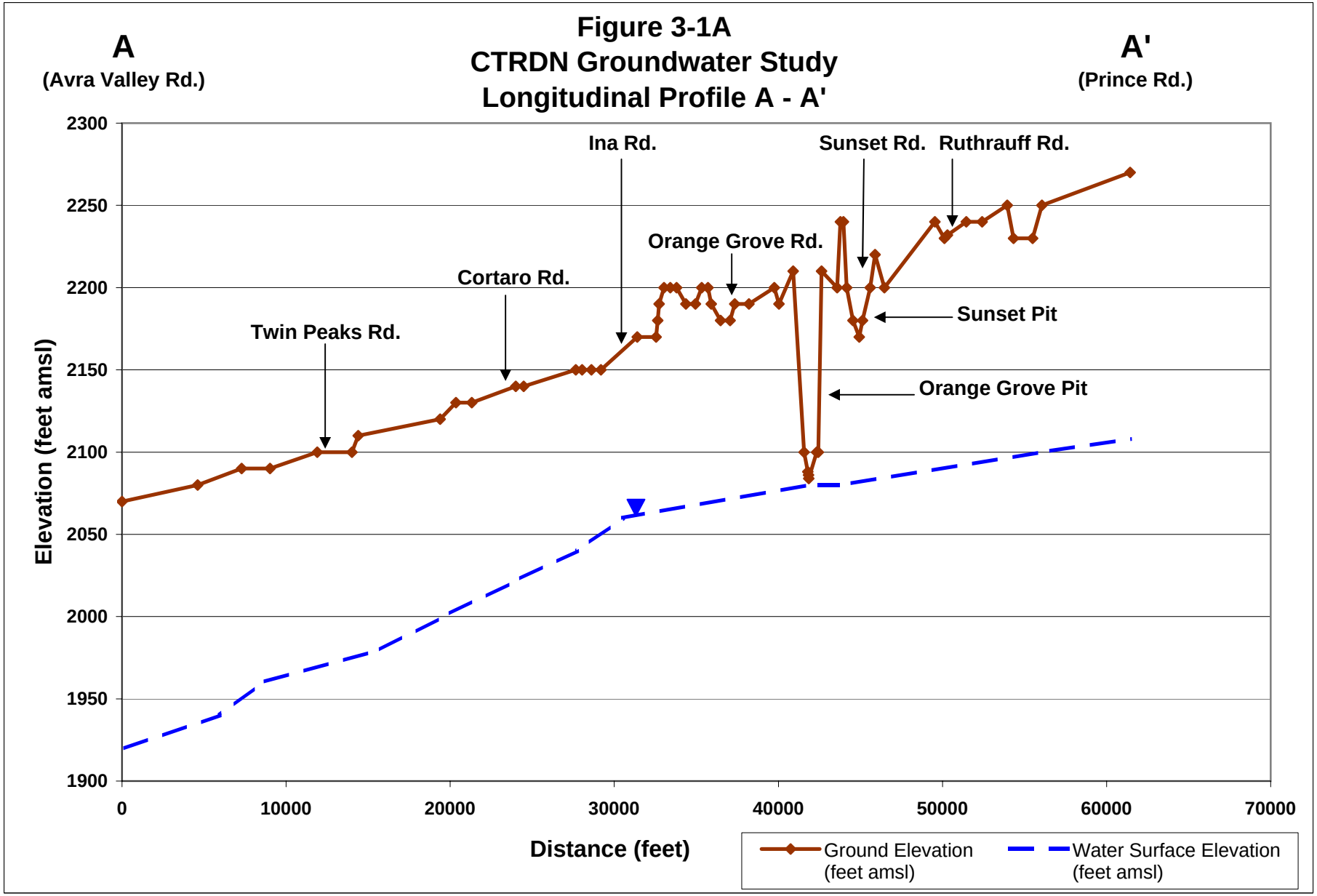


Figure 3-1A
CTRDN Groundwater Study
Longitudinal Profile A - A'
A
(Avra Valley Rd.)
A'
(Prince Rd.)
Ina Rd.
Sunset Rd.
Ruthrauff Rd.
Orange Grove Rd.
Cortaro Rd.
Twin Peaks Rd.
Sunset Pit
Orange Grove Pit
Elevation (feet amsl)
2300
2250
2200
2150
2100
2050
2000
1950
1900
0
10000
20000
30000
40000
50000
60000
70000
Distance (feet)
Ground Elevation (feet amsl)
Water Surface Elevation (feet amsl)

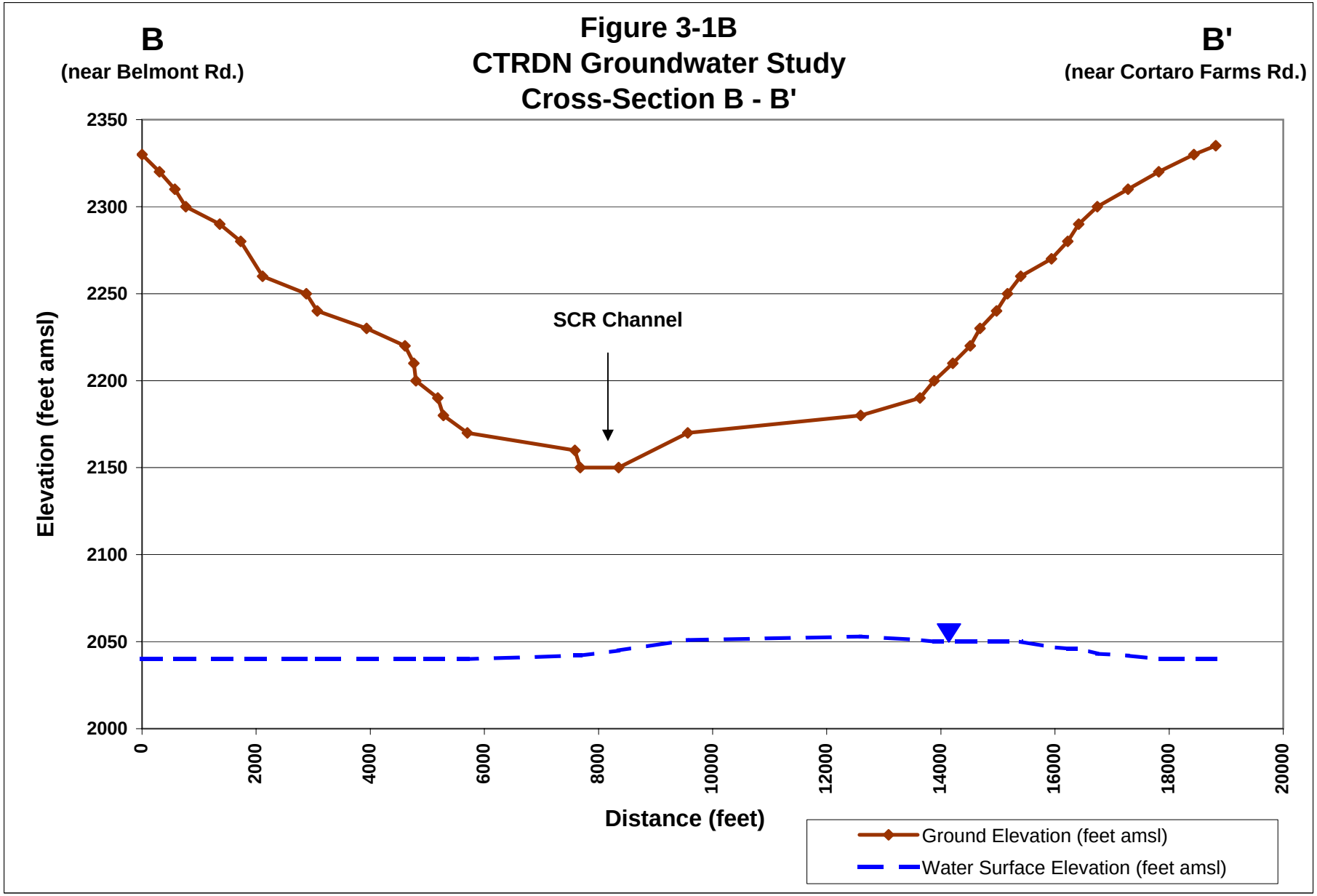


Figure 3-1B
CTRDN Groundwater Study
Cross-Section B - B'
B
(near Belmont Rd.)
B'
(near Cortaro Farms Rd.)
SCR Channel
Elevation (feet amsl)
2350
2300
2250
2200
2150
2100
2050
2000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
Distance (feet)
Ground Elevation (feet amsl)
Water Surface Elevation (feet amsl)

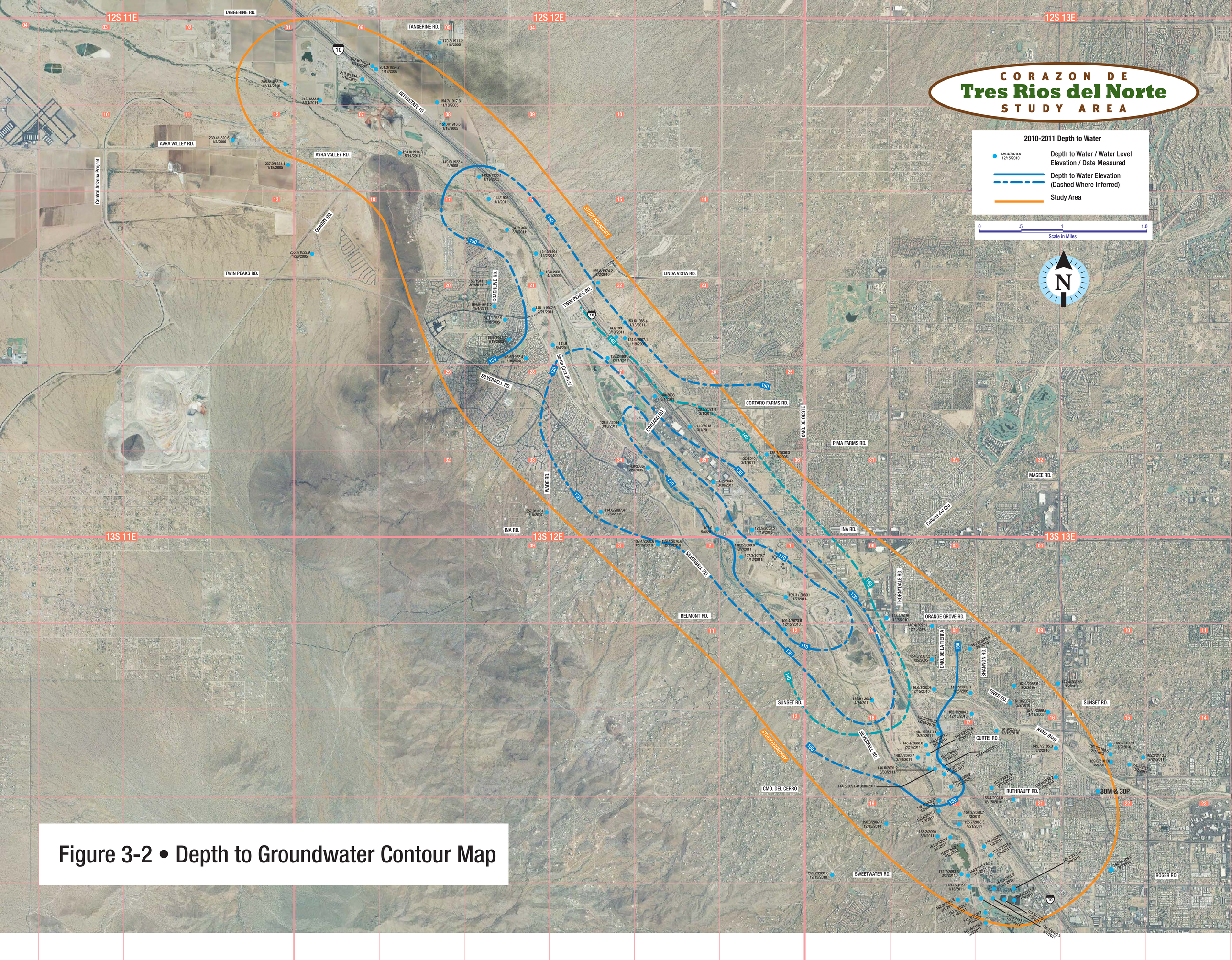



Figure 3-2 • Depth to Groundwater Contour Map

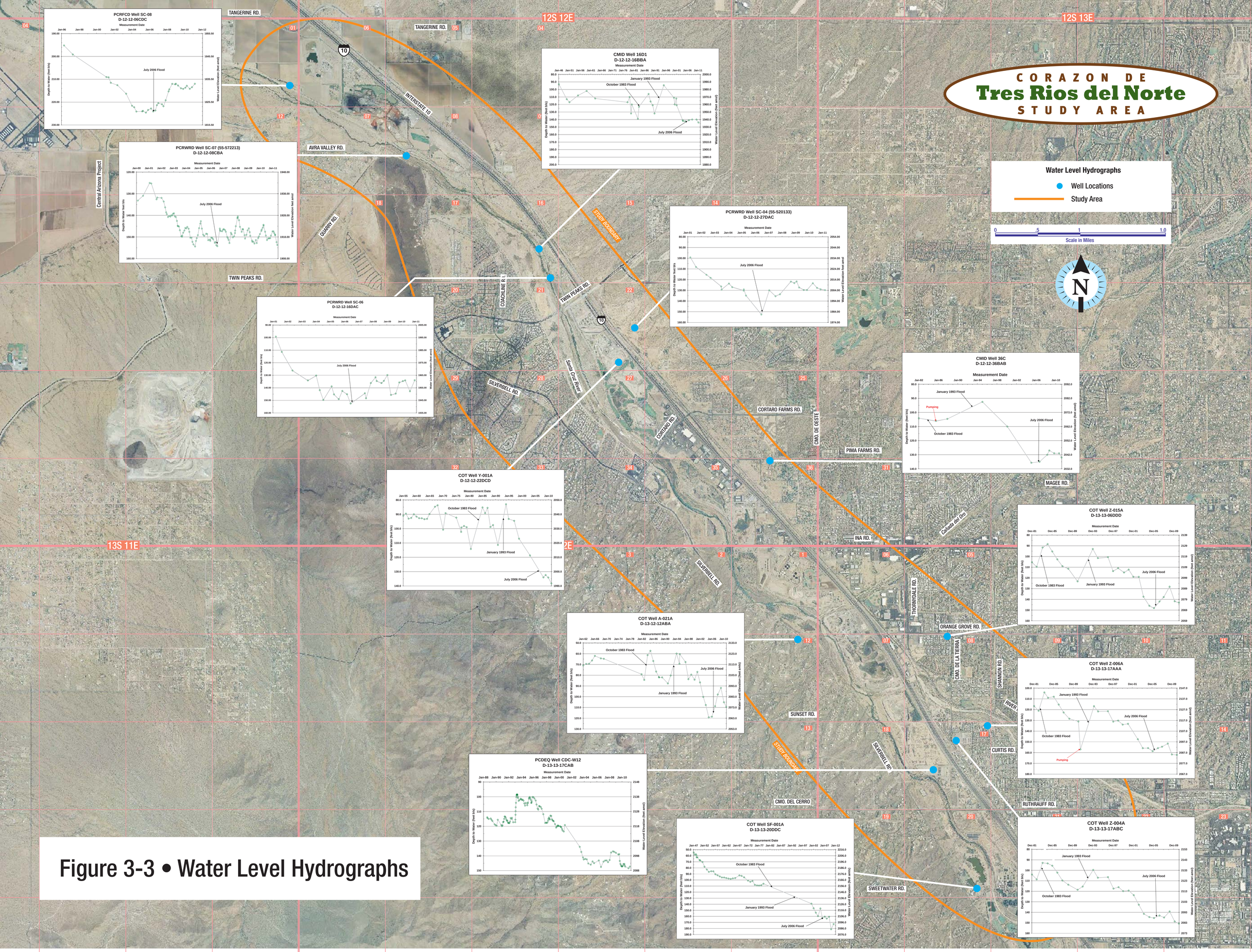



Figure 3-3 • Water Level Hydrographs

Figure 3-4

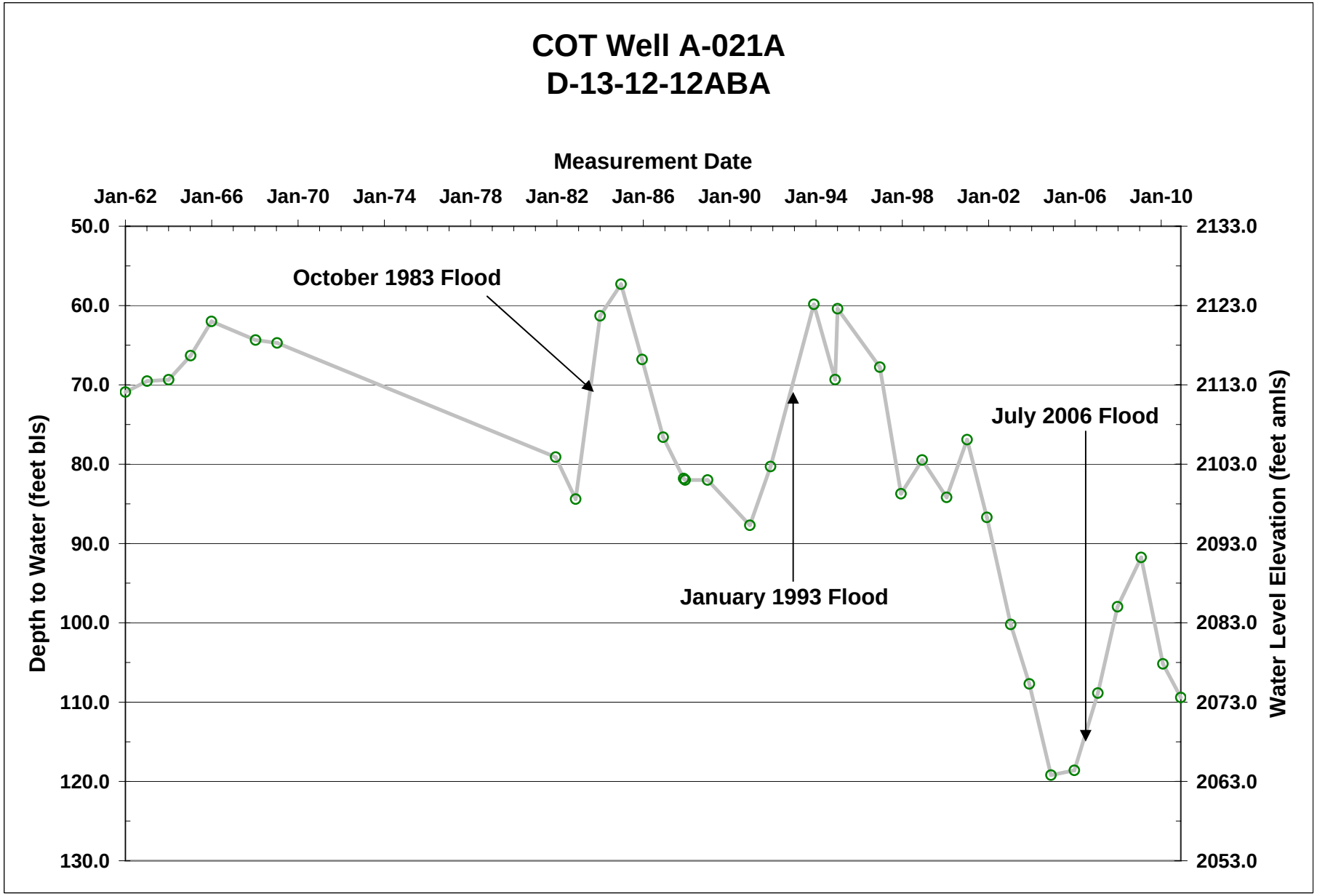

COT Well A-021A
D-13-12-12ABA
Measurement Date
Jan-62
Jan-66
Jan-70
Jan-74
Jan-78
Jan-82
Jan-86
Jan-90
Jan-94
Jan-98
Jan-02
Jan-06
Jan-10
Depth to Water (feet bls)
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
Water Level Elevation (feet amls)
2133.0
2123.0
2113.0
2103.0
2093.0
2083.0
2073.0
2063.0
2053.0
October 1983 Flood
January 1993 Flood
July 2006 Flood

**Figure 3-5**
**Annual Runoff Volume vs. Depth to Groundwater:**
**Well Nearby SCR and CDO Confluence**

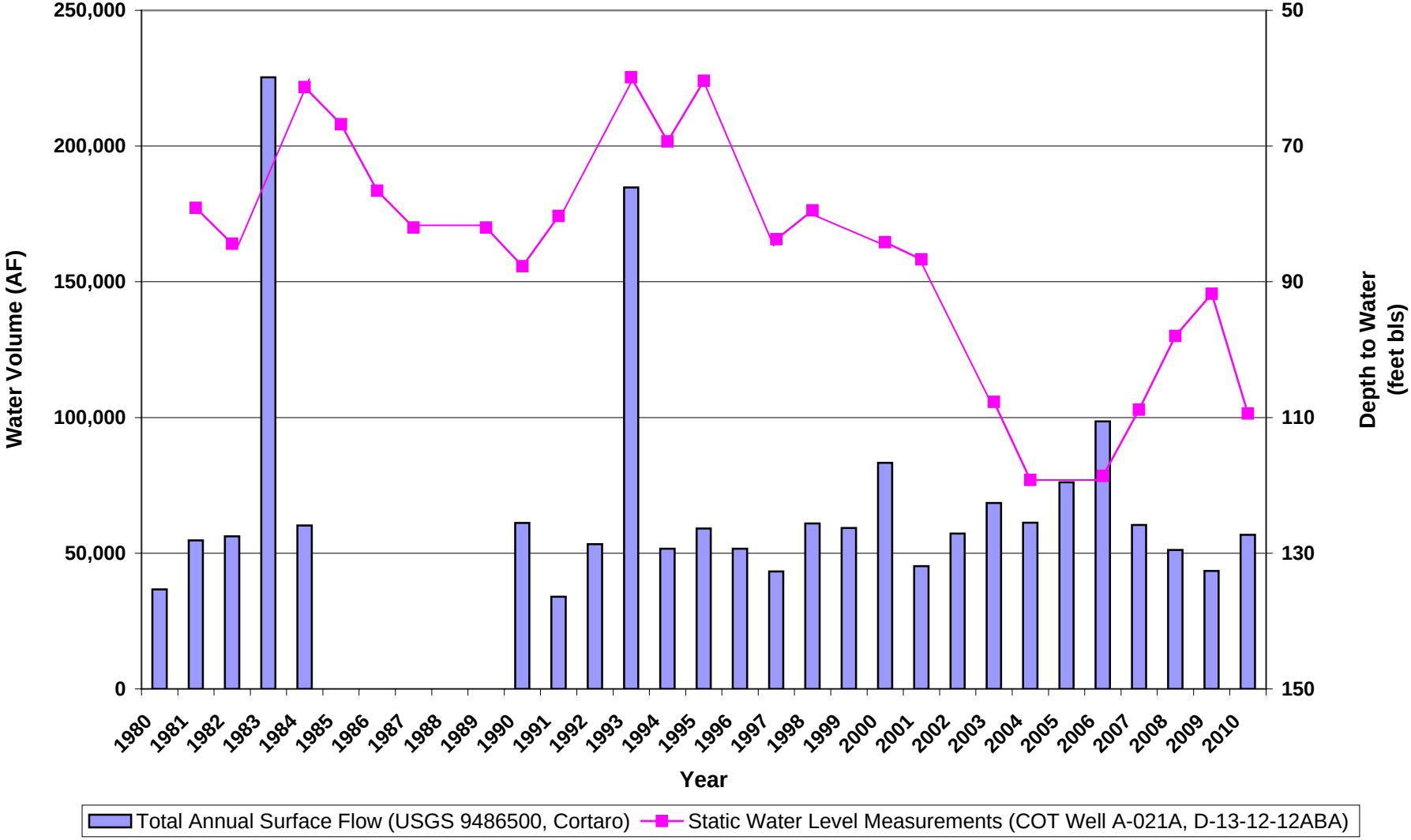


**Figure 3-6**
**Annual Runoff Volume vs. Depth to Groundwater:**
**Well Nearby Curtis Road and Interstate 10**

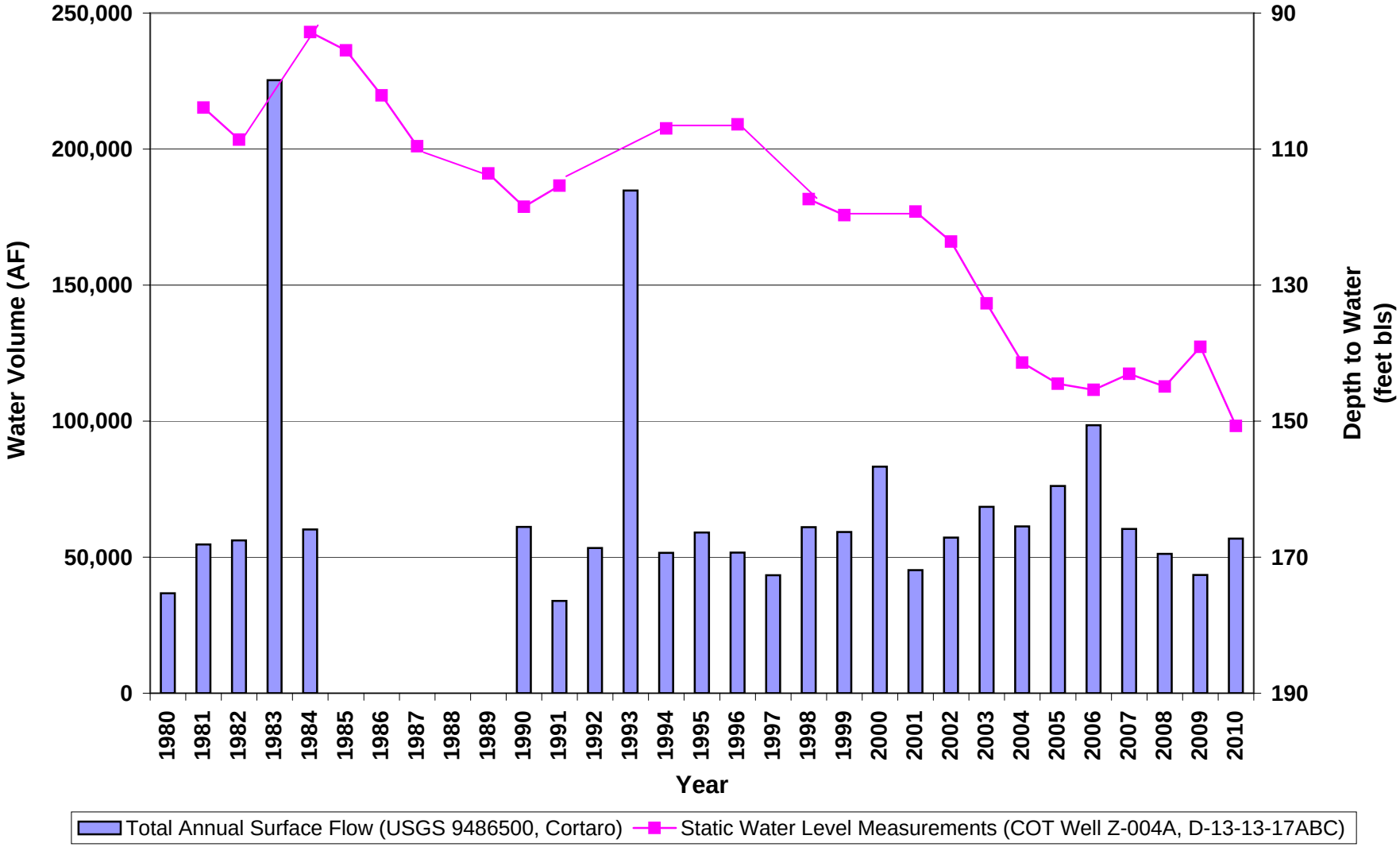


**Figure 3-7**
**Annual Runoff Volume vs. Depth to Groundwater:**
**Well Nearby SCR and Rillito Confluence**

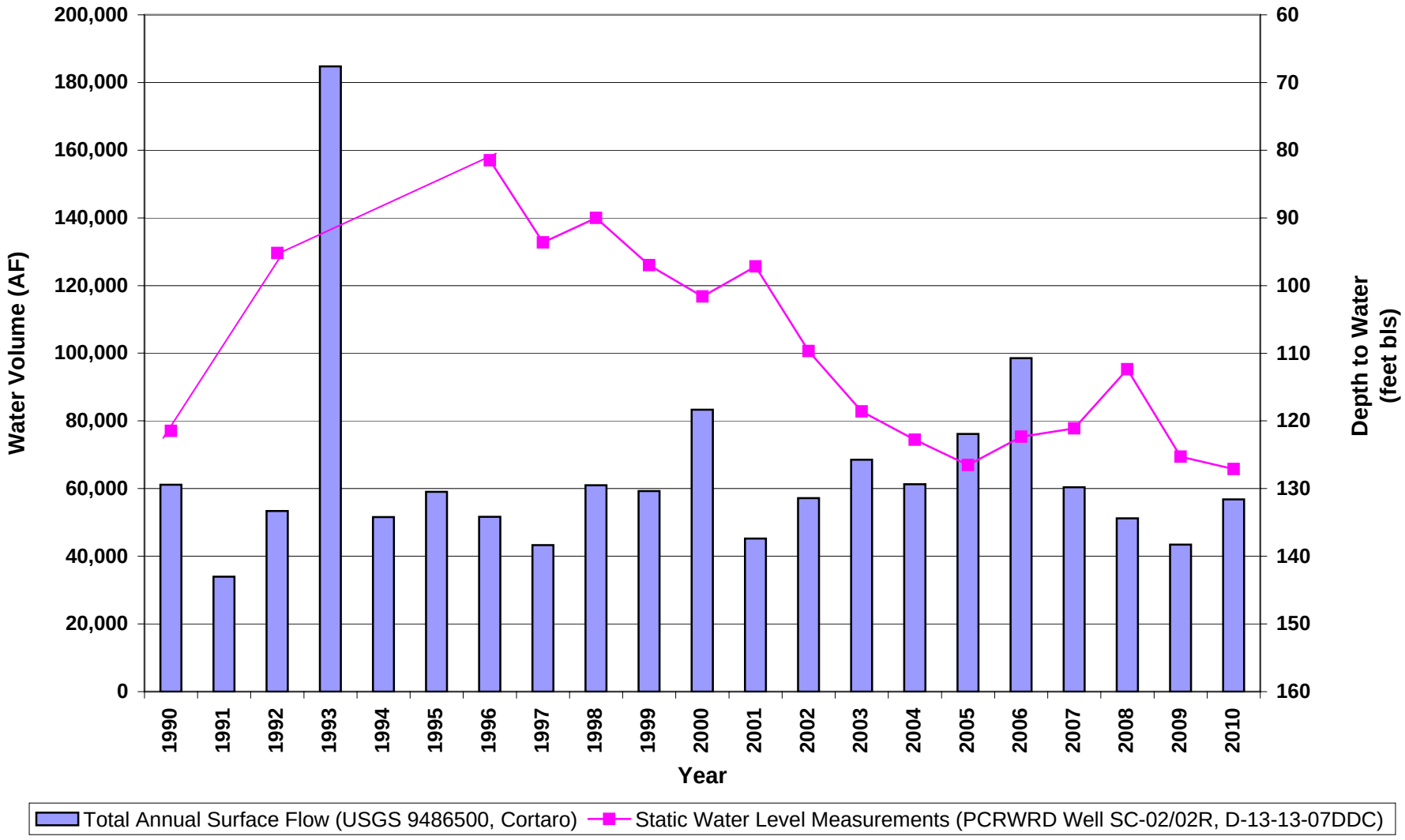
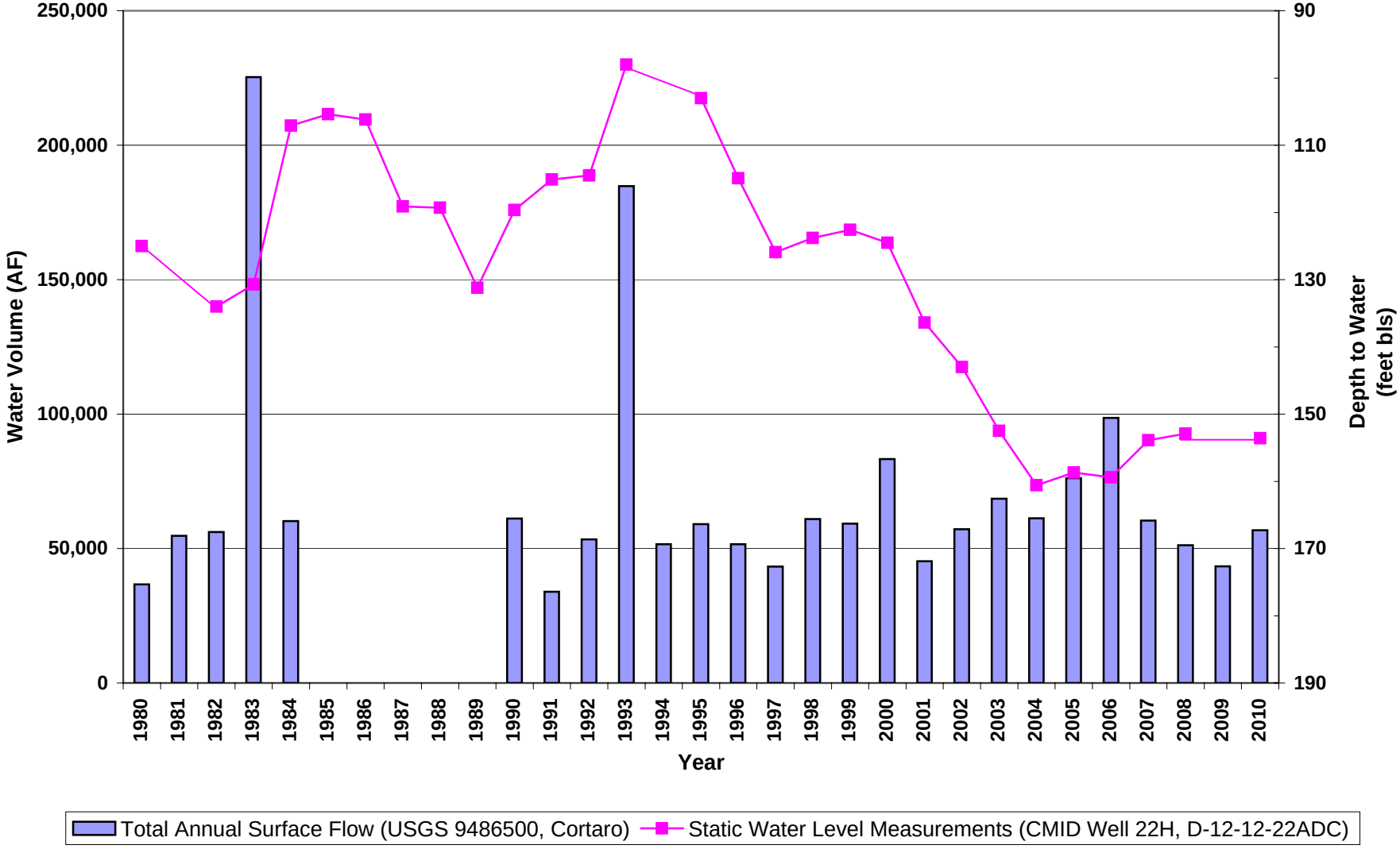


**Figure 3-8**
**Annual Runoff Volume vs. Depth to Groundwater:**
**Well Nearby Linda Vista and Interstate 10**



# APPENDIX A

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 507177 | 321646111014401 | EW-001A | COT (TW) | 13-13-29aaa | 1995-2011 | 8 | 142.6 | 2108.4 | 3/7/2009 | 2251.0 | Non-exempt | yes | Withdrawal Permit; Recovery Well Permit No. 74-552006.2 |
| 507178 | 321641111014501 | WR-060A | COT (TW) | 13-13-29aaa | 1995-2011 | 11 | 149.1 | 2103.9 | 1/13/2011 | 2253.0 | Other | no | Exploration well |
| 507179 | 321644111014401 | WR-062A | COT (TW) | 13-13-29aaa | 2001-2002 | 2 | 115.8 | 2129.2 | 1/2/2002 | 2245.0 | Other | no | dry on 1/13/2008 |
| 507181 | 321643111014801 | WR-064A | COT (TW) | 13-13-29aaa | 2001-2002 | 2 | 126.5 | 2129.5 | 1/2/2002 | 2256.0 | Other | no | dry on 2/3/2007 and 1/13/2008 |
| 507182 | 321643111014101 | WR-066A | COT (TW) | 13-13-29aaa | 1995-2005 | 6 | 122.0 | 2133.0 | 2/16/2005 | 2255.0 | Other | no | dry on 1/13/2008 |
| 529297 | 321644111014801 | WR-064B | COT | 13-13-29aaa | 1995-2011 | 11 | 150.1 | 2103.9 | 1/13/2011 | 2254.0 | Monitor | no | Monitor or Piezometer well |
| 532537 | 321643111014201 | WR-066B | COT | 13-13-29aaa | 1995-2011 | 12 | 142.8 | 2112.2 | 1/13/2011 | 2255.0 | Monitor | no | Monitor or Piezometer well |
| 540120 | 321639111015001 | EW-004A | COT | 13-13-29aac | 1994-2011 | 9 | 162.2 | 2095.8 | 3/1/2011 | 2258.0 | Non-exempt | yes | Withdrawal Permit; Recovery Well Permit Nos. 74-555072 & 74-552006 |
| 507180 | 321638111014402 | WR-063A | COT (TW) | 13-13-29aad | 2001 | 1 | 113.5 | 2140.5 | 1/25/2001 | 2254.0 | Other | no | dry on 2/3/2007 and 1/13/2008 |
| 507186 | 321634111014404 | WR-065A | COT (TW) | 13-13-29aad | 2001 | 1 | 116.1 | 2138.9 | 1/25/2001 | 2255.0 | Other | no | dry on 1/7/2008 |
| 519379 | 321634111014401 | EW-002A | COT (TW) | 13-13-29aad | 1995-2011 | 10 | 158.7 | 2098.3 | 3/3/2011 | 2257.0 | Non-exempt | yes | Withdrawal Permit; Recovery Well Permit No. 74-552006.2 |
| 530633 | 321634111014301 | WR-065B | COT | 13-13-29aad | 1995-2011 | 12 | 151.6 | 2103.4 | 1/13/2011 | 2255.0 | Monitor | no | Monitor or Piezometer well |
| 530635 | 321638111014401 | WR-063B | COT | 13-13-29aad | 1995-2011 | 12 | 149.4 | 2104.6 | 1/13/2011 | 2254.0 | Monitor | no | Monitor or Piezometer well |
| 633522 | | | D. L. Crull | 13-13-29ab | | | | | | | Exempt | no | |
| 601456 | | | D. L. Crull | 13-13-29ab | | | | | | | Exempt | no | |
| 85301 | | | P. J. Traxler | 13-13-29abc | | | | | | | Exempt | no | |
| 631713 | 321636111020301 | ML-002A | COT | 13-13-29abd | 2001-2008 | 8 | 179.9 | 2102.1 | 1/7/2008 | 2282.0 | Exempt | no | |
| 631714 | 321639111015901 | ML-001A | COT | 13-13-29abd | | | | | | 2276.0 | Exempt | no | obstruction on 2/12/2008 |
| 87059 | | | Truth Consciousness | 13-13-29baa | | | | | | | Exempt | no | |
| 574566 | | | Truth Consciousness | 13-13-29bad | | | | | | | Exempt | no | |
| 801381 | | | Truth Consciousness | 13-13-29bad | | | | | | | Exempt | no | |
| 555661 | | | E. Dubis | 13-13-29bdc | | | | | | | Exempt | no | |
| 564120 | | | G. McCoskey | 13-13-29cab | | | | | | | Exempt | no | |
| 644257 | | | I. Wells | 13-13-29cac | | | | | | | Exempt | no | |
| 638630 | 321558111024101 | | L. Hopper et. al. | 13-13-29ccc | | | | | | 2384.0 | Exempt | no | |
| 210336 | | | Fisher Family Revocable Trust | 13-13-29cdc | | | | | | | Exempt | no | |
| 542378 | | | E. A. Vernon | 13-13-29dbb | | | | | | | Exempt | no | |
| 700013 | | | Non-Owner (ADWR) | 13-13-29dda | | | | | | | Exempt | no | |
| 700015 | | | Non-Owner (ADWR) | 13-13-29dda | | | | | | | Exempt | no | |
| 700016 | | | Non-Owner (ADWR) | 13-13-29dd | | | | | | | Exempt | no | |
| 634988 | | | A. T. Wilson | 13-13-29dcd | | | | | | | Exempt | no | |
| | 321605111014601 | UA 790 | Lainson, R. & S. | 13-13-29dda | 1951-1979 | 24 | 168.4 | 2066.7 | 1/31/1979 | 2235.0 | Exempt | no | obstruction on 12/17/1981 & 1/24/1995 |
| 911852 | | | ADOT | 13-13-28 | | | | | | | Other | no | Geotechnical well |
| | 321637111005401 | | Knapp, B. | 13-13-28aac | 1947-1971 | 20 | 91.5 | 2179.6 | 1/31/1971 | 2271.0 | Exempt | no | |
| 700087 | | | Non-Owner (ADWR) | 13-13-28aac | | | | | | | Exempt | no | |
| 700012 | | | Non-Owner (ADWR) | 13-13-28aac | | | | | | | Exempt | no | |
| 905560 | | | COT (OEM) | 13-13-28aba | | | | | | | Monitor | no | capped |
| 905558 | | | COT (OEM) | 13-13-28aba | | | | | | | Monitor | no | capped |
| 587011 | 321619111010401 | WR-433A | COT | 13-13-28acc | | | | | | 2268.0 | Monitor | no | |
| 903386 | | | COT | 13-13-28acc | | | | | | | Monitor | no | |
| 905559 | | | COT | 13-13-28adc | | | | | | | Monitor | no | capped |
| 597788 | | | COT (OEM) | 13-13-28adc | | | | | | | Monitor | no | |
| 905581 | | | T. Murray | 13-13-28adc | | | | | | | Exempt | no | |
| 604028 | 321622111005201 | UA 785 | A. Rados | 13-13-28adc | 1947-2000 | 21 | 131.3 | 2138.0 | 6/28/2000 | 2269.5 | Non-exempt | no | |
| | 321619111004701 | | Genter | 13-13-28add | 1939-1965 | 79 | 83.8 | 2195.2 | 1/18/1965 | 2279.0 | Exempt | no | |
| 563518 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 562754 | 321644111011101 | WR-311A | COT (TW) | 13-13-28baa | 2001-2011 | 8 | 143.2 | 2123.8 | 3/9/2011 | 2267.0 | Monitor | no | Monitor or Piezometer well |
| 562755 | 321643111011101 | WR-312A | COT (TW) | 13-13-28baa | 2001-2002 | 3 | 133.8 | 2133.2 | 12/22/2002 | 2267.0 | Monitor | no | Monitor or Piezometer well |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 562756 | 321641111011101 | WR-313A | COT (TW) | 13-13-28baa | 2001-2004 | 4 | 135.1 | 2129.9 | 1/25/2004 | 2265.0 | Monitor | no | Monitor or Piezometer well |
| 563513 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563519 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563531 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563524 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563523 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563534 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563525 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563520 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563522 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563517 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563527 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563521 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563516 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 553138 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 565668 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | |
| 563514 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563529 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563502 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563526 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563532 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563533 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563536 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563515 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563528 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563530 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563535 | | | COT (TW) | 13-13-28baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 564894 | 321641111012001 | EW-005A | COT (OEM) | 13-13-28bac | 2002-2011 | 7 | 154.8 | 2108.2 | 3/9/2011 | 2263.0 | Non-exempt | no | Recovery Well Permit No. 74-552006 |
| 565670 | 321641111011901 | WR-320A | COT (TW) | 13-13-28bac | | | | | | 2263.0 | Monitor | no | |
| 700055 | | | Non-Owner (ADWR) | 13-13-28bad | | | | | | | Exempt | no | |
| 530632 | 321632111011201 | WR-205A | COT | 13-13-28bad | 1995-2011 | 12 | 157.8 | 2111.2 | 1/3/2011 | 2269.0 | Monitor | no | Monitor or Piezometer well |
| 564895 | 321641111013101 | EW-006A | COT (OEM) | 13-13-28bba | 2002-2011 | 9 | 161.2 | 2101.8 | 3/1/2011 | 2263.0 | Non-exempt | no | Recovery Well Permit No. 74-552006 |
| 532536 | 321638111013901 | WR-069B | COT | 13-13-28bbc | 1995-2011 | 12 | 144.8 | 2111.2 | 1/13/2011 | 2256.0 | Monitor | no | Monitor or Piezometer well |
| 507185 | 321638111013801 | WR-069A | COT (TW) | 13-13-28bbc | 1995-2007 | 8 | 127.9 | 2128.1 | 12/6/2007 | 2256.0 | Other | no | Exploration well |
| 571329 | | | COT | 13-13-28bbc | | | | | | | Monitor | no | Piezometer |
| 571326 | | | COT (OEM) | 13-13-28bbc | | | | | | | Monitor | no | Piezometer |
| 529294 | | | COT | 13-13-28bbc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 571327 | | | COT (OEM) | 13-13-28bbc | | | | | | | Monitor | no | Piezometer |
| 571328 | | | COT (OEM) | 13-13-28bbc | | | | | | | Monitor | no | Piezometer |
| 529020 | 321634111013201 | EW-003A | COT (TW) | 13-13-28bbd | 1994-2011 | 10 | 155.7 | 2100.3 | 3/1/2011 | 2256.0 | Non-exempt | yes | Recovery Well Permit No. 74-552006.0002 |
| 565669 | 321642111013201 | WR-319A | COT (TW) | 13-13-28bbd | | | | | | 2263.0 | Monitor | no | |
| 529128 | | | COT (TW) | 13-13-28bcb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 532539 | 321633111013601 | WR-199A | COT | 13-13-28bcb | 2001-2011 | 9 | 141.3 | 2106.7 | 1/18/2011 | 2248.0 | Monitor | no | Monitor or Piezometer well |
| 530634 | 321622111013501 | WR-198A | COT | 13-13-28bcc | 1995-2011 | 9 | 165.6 | 2100.4 | 3/9/2011 | 2266.0 | Monitor | no | Monitor or Piezometer well |
| 582804 | 321629111013501 | | COT | 13-13-28bcd | | | | | | | Monitor | no | Piezometer |
| 529864 | 321630111012401 | WR-092B | COT | 13-13-28bdb | 1995-2006 | 7 | 145.5 | 2119.5 | 1/16/2006 | 2265.0 | Monitor | no | Monitor or Piezometer well |
| 529863 | | | COT | 13-13-28bdb | | | | | | | Monitor | no | |
| 509473 | 321630111012301 | WR-092A | COT (TW) | 13-13-28bdb | 1995-2005 | 5 | 127.9 | 2135.1 | 2/16/2005 | 2263.0 | Other | no | Exploration well |
| 903382 | | | COT | 13-13-28bdc | | | | | | | Monitor | no | |
| 903384 | | | COT | 13-13-28bdc | | | | | | | Monitor | no | |
| 905557 | | WR-473M | COT (OEM) | 13-13-28bdc | | | | | | | Monitor | no | capped |
| 587010 | 321606111012401 | WR-432A | COT | 13-13-28cac | | | | | | 2288.0 | Monitor | no | |
| 700014 | | | COT | 13-13-28cbc | | | | | | | Non-exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 619848 | 321606111014301 | Z-012A | COT | 13-13-28ccb | 1981-2010 | 32 | 217.4 | 2099.8 | 12/14/2010 | 2317.2 | Non-exempt | no | |
| 587009 | 321556111011801 | WR-431A | COT | 13-13-28cdd | | | | | | 2280.0 | Monitor | no | |
| 533310* | 321617111004201 | WR-206A | COT | 13-13-28daa | 1995-2006 | 7 | 150.3 | 2124.7 | 1/19/2006 | 2275.0 | Monitor | no | Monitor or Piezometer well; abandoned 10/20/2010 |
| 582599 | | | COT (OEM) | 13-13-28dac | | | | | | | Monitor | no | |
| 597787 | | | COT (OEM) | 13-13-28dad | | | | | | | Monitor | no | |
| 544645 | 321615111010201 | WR-243A | COT | 13-13-28dba | 2001-2006 | 6 | 152.6 | 2118.4 | 1/18/2006 | 2271.0 | Monitor | no | Monitor or Piezometer well |
| 582603 | | | COT (OEM) | 13-13-28dbd | | | | | | | Monitor | no | |
| 582598 | | | COT (OEM) | 13-13-28dca | | | | | | | Monitor | no | |
| 509472 | 321608111010801 | WR-093A | COT (TW) | 13-13-28dcb | 2001-2006 | 5 | 160.1 | 2118.9 | 1/18/2006 | 2279.0 | Monitor | no | Monitor or Piezometer well |
| 529300* | | | COT | 13-13-28dcb | | | | | | | Monitor | no | cancelled - same well as 509472 |
| 529298 | | | COT | 13-13-28dcb | | | | | | | Monitor | no | |
| 509471 | 321559111010201 | WR-094A | COT (TW) | 13-13-28dcc | 1995-2006 | 7 | 157.6 | 2126.4 | 1/18/2006 | 2284.0 | Monitor | no | |
| 529299* | | | COT | 13-13-28dcc | | | | | | | Monitor | no | cancelled - same well as 509471 |
| 529293 | | | COT | 13-13-28dcc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 582605 | | | COT (OEM) | 13-13-28dcd | | | | | | | Monitor | no | |
| 582600 | | | COT | 13-13-28ddb | | | | | | | Monitor | no | |
| 582602 | | | COT (OEM) | 13-13-28ddb | | | | | | | Monitor | no | |
| 529604 | | | COT (OEM) | 13-13-28ddb | | | | | | | Monitor | no | Monitor or Piezometer well; abandoned |
| 220175 | | | COT (OEM) | 13-13-28ddb | | | | | | | Monitor | no | within ROW east of 3000 W. Prince Rd. |
| 912708 | | | COT (OEM) | 13-13-28ddb | | | | | | | Monitor | no | |
| 582601 | | | COT (OEM) | 13-13-28ddc | | | | | | | Monitor | no | |
| 527397 | 321560111004201 | WR-182A | COT | 13-13-28ddd | 1994-2005 | 5 | 144.8 | 2130.2 | 12/8/2005 | 2275.0 | Monitor | no | Monitor or Piezometer well |
| 533739 | | | ADOT | 13-13-27 | | | | | | | Other | no | Exploration well |
| 543097 | | | ADOT | 13-13-27 | | | | | | | Other | no | Exploration well |
| 902288 | | | ADOT | 13-13-27 | | | | | | | Other | no | Geotechnical well |
| 523057 | | | Coca Cola Bottling | 13-13-27 | | | | | | | Other | no | Exploration well |
| 586430 | | | ADEQ | 13-13-27abb | | | | | | | Monitor | no | |
| 801453 | | | R. C. Netherton | 13-13-27abc | | | | | | | Exempt | no | |
| 201669 | | | San Juan Spring Co. | 13-13-27acc | | | | | | | Monitor | no | |
| 900477 | | | ADEQ | 13-13-27acc | | | | | | | Monitor | no | |
| 201667 | | | San Juan Spring Co. | 13-13-27acc | | | | | | | Monitor | no | |
| 201668 | | | San Juan Spring Co. | 13-13-27acc | | | | | | | Monitor | no | |
| 700062 | | | Non-Owner (ADWR) | 13-13-27acd | | | | | | | Exempt | no | |
| 529842 | | | ADEQ | 13-13-27adb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 529840 | | | ADEQ | 13-13-27baa | | | | | | | Monitor | no | Monitor or Piezometer well |
| 586370 | | | ADEQ | 13-13-27bac | | | | | | | Monitor | no | |
| 586371 | | | ADEQ | 13-13-27bac | | | | | | | Monitor | no | |
| 586372 | | | ADEQ | 13-13-27bac | | | | | | | Monitor | no | |
| 586407 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 596077 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 586502 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 596078 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 586501 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 525426 | | | Coca Cola Bottling | 13-13-27bad | | | | | | | Other | no | Exploration well |
| 596081 | | | ADEQ | 13-13-27bad | | | | | | | Monitor | no | |
| 220029 | | | ADEQ | 13-13-27bbb | | | | | | | Monitor | no | |
| 220030 | | | ADEQ | 13-13-27bbb | | | | | | | Monitor | no | |
| 535348* | | | ADOT | 13-13-27bcb | | | | | | | Monitor | no | abandoned 12/29/2002 |
| 535347* | | | ADOT | 13-13-27bcb | | | | | | | Monitor | no | abandoned 12/15/2002 |
| 535346* | | | ADOT | 13-13-27bcb | | | | | | | Monitor | no | not drilled - abandoned 12/29/2002 |
| 220031 | | SLM-456A | COT (OEM) | 13-13-27bcb | | | | | | | Monitor | no | |
| 220032 | | SLM-456M | COT (OEM) | 13-13-27bcb | | | | | | | Monitor | no | |
| 557128 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 801434* | | | Fairfax Investment | 13-13-27bda | | | | | | | Exempt | no | abandoned 2/10/2002 |
| 557129 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | Monitor or Piezometer well |
| 596080 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 596079 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 900480 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 900478 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 596075 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 596082 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 596076 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 900481 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 900479 | | | ADEQ | 13-13-27bda | | | | | | | Monitor | no | |
| 529841 | | | ADEQ | 13-13-27bdb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700061 | | | | 13-13-27bdd | | | | | | | Exempt | no | |
| 547953 | | | ADEQ | 13-13-27bdd | | | | | | | Monitor | no | Monitor or Piezometer well |
| 547954 | | | ADEQ | 13-13-27bdd | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700064 | | | | 13-13-27c | | | | | | | Exempt | no | |
| 570338 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570336 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570343 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570340 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570339 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570341 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 570337 | | | Conoco Phillips Co. | 13-13-27caa | | | | | | | Monitor | no | |
| 535683 | | | ADOT | 13-13-27cb | | | | | | | Other | no | Exploration well |
| 630734 | | | ADOT | 13-13-27cc | | | | | | | Exempt | no | |
| 606718 | | | TRA-TEL Tucson RV Park | 13-13-27cc | | | | | | | Exempt | no | |
| 535344* | | | ADOT | 13-13-27cca | | | | | | | Monitor | no | Monitor or Piezometer well; abandoned 4/4/2006 |
| 904440 | | | ADOT | 13-13-27cca | | | | | | | Monitor | no | |
| 904361 | | | ADOT | 13-13-27cca | | | | | | | Monitor | no | |
| 700063 | | | | 13-13-27cca | | | | | | | Exempt | no | |
| 904412 | | | ADOT | 13-13-27cca | | | | | | | Monitor | no | |
| 535345* | | | ADOT | 13-13-27cca | | | | | | | Monitor | no | Monitor or Piezometer well; abandoned 4/5/2006 |
| 700119* | | | Opal Associates Limited Partnership | 13-13-27ccb | | | | | | | Exempt | no | abandoned 8/30/2005 |
| 700117* | | | Opal Associates Limited Partnership | 13-13-27ccb | | | | | | | Exempt | no | abandoned 8/5/2005 |
| 700105 | | | | 13-13-27ccd | | | | | | | Non-exempt | no | |
| 400286* | | | Tucson Development | 13-13-27ccd | | | | | | | Exempt | no | abandoned 5/22/2001 |
| 543099* | | | ADOT | 13-13-27cdb | | | | | | | Monitor | no | Monitor or Piezometer well; abandoned 12/15/2002 |
| 543100* | | | ADOT | 13-13-27cdb | | | | | | | Monitor | no | Monitor or Piezometer well; abandoned 4/3/2003 |
| 543098 | | | ADOT | 13-13-27cdb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 559774* | | | ADOT | 13-13-27cdb | | | | | | | Monitor | no | abandoned 12/16/2002 |
| 602620* | | | ADOT | 13-13-27cdc | | | | | | | Exempt | no | abandoned 6/30/2000 |
| 700002 | | | Non-Owner (ADWR) | 13-13-27cdc | | | | | | | Exempt | no | |
| 604913 | 321557111001301 | Well No. 2 | USDA-SCS | 13-13-27cdd | 1968-2010 | 9 | 157.0 | 2137.6 | 2/28/2010 | 2294.6 | Non-exempt | yes | |
| 604912* | 321558111001401 | | USDA-SCS | 13-13-27cdd | 1952-1953 | 6 | 69.3 | 2225.0 | 7/9/1953 | 2294.5 | Non-exempt | yes | abandoned 8/9/1995 |
| 700023 | | | Non-Owner (ADWR) | 13-13-27daa | | | | | | | Exempt | no | |
| 700076 | | | Non-Owner (ADWR) | 13-13-27daa | | | | | | | Exempt | no | |
| 636807 | | | C. B. Cluff | 13-13-27daa | | | | | | | Exempt | no | |
| 700075 | | | P. Provencio | 13-13-27dad | | | | | | | Exempt | no | |
| 700025 | | | Non-Owner (ADWR) | 13-13-27dad | | | | | | | Exempt | no | |
| 201497 | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529843 | | | ADEQ | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 557942* | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well - abandoned 10/27/2008 |
| 201498* | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well - abandoned 10/27/2008 |
| 524720 | | | Southwest Gas Corp | 13-13-27dbb | | | | | | | Other | no | Exploration well |
| 557943 | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 557940* | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well - abandoned 10/27/2008 |
| 570342* | | | Conoco Phillips Co. | 13-13-27dbb | | | | | | | Monitor | no | Monitor or Piezometer well - abandoned 10/27/2008 |
| 700022 | | | V. N. Campolongo | 13-13-27dcb | | | | | | | Exempt | no | |
| 700051 | | | UA Plant Material Center | 13-13-27dcc | | | | | | | Exempt | no | |
| 212347 | | | ADEQ | 13-13-27dcc | | | | | | | Monitor | no | capped 6/19/2006 |
| 212346 | | | ADEQ | 13-13-27dcc | | | | | | | Monitor | no | capped 6/19/2006 |
| 212349 | | | ADEQ | 13-13-27dcc | | | | | | | Monitor | no | capped 6/19/2006 |
| 212348 | | | ADEQ | 13-13-27dcc | | | | | | | Monitor | no | capped 6/19/2006 |
| 640314 | | | A. R. Erickson | 13-13-27ddc | | | | | | | Exempt | no | |
| 611984 | | | R. D. Will | 13-13-22 | | | | | | | Exempt | no | |
| 530771 | | | Southwest Gas Corp | 13-13-22aac | | | | | | | Other | no | capped 3/28/1991 |
| 626038 | 321725110595701 | Well No. 72 | Flowing Wells Irrigation Dist. | 13-13-22abd | 1970-2005 | 8 | 173.7 | 2108.6 | 1/30/2005 | 2282.3 | Non-exempt | yes | Recovery Well Permit No. 74-218756 |
| 481792* | | | Pima County | 13-13-22acb | | | | | | | Exempt | no | abandoned 9/15/2004 |
| | 321715111000601 | | George, C.E. | 13-13-22acc | 1949 | 1 | 79.3 | 2213.7 | 9/19/1949 | 2293.0 | Exempt | no | |
| 700106 | | | Non-Owner (ADWR) | 13-13-22acc | | | | | | | Exempt | no | |
| 700108 | | | Non-Owner (ADWR) | 13-13-22acc | | | | | | | Exempt | no | |
| 700057 | | | Automall Resale & Finance LLC | 13-13-22acc | | | | | | | Exempt | no | |
| 481793* | | | Pima County | 13-13-22acd | | | | | | | Exempt | no | abandoned 9/15/2004 |
| | 321714110594301 | | Dashell, H. | 13-13-22ada | 1949 | 1 | 60.7 | 2234.3 | 9/19/1949 | 2295.0 | Exempt | no | |
| 700008 | | | D. & P. Meing | 13-13-22add | | | | | | | Exempt | no | |
| 700072 | | | Blake Holding Corp | 13-13-22bad | | | | | | | Exempt | no | |
| 700058 | | | Non-Owner (ADWR) | 13-13-22bad | | | | | | | Exempt | no | |
| 700011 | | | Non-Owner (ADWR) | 13-13-22bad | | | | | | | Non-exempt | no | |
| 599304 | | | Chevron USA | 13-13-22bbb | | | | | | | Other | no | Geotechnical well |
| 599558 | | | Chevron USA | 13-13-22bbb | | | | | | | Monitor | no | |
| 700091 | | | Non-Owner (ADWR) | 13-13-22bbb | | | | | | | Exempt | no | |
| 625968 | | | Security Savings | 13-13-22bbc | | | | | | | Non-exempt | no | abandoned |
| 625969 | | | Security Savings | 13-13-22bbc | | | | | | | Non-exempt | no | abandoned |
| | 321730111003701 | | Shamrock Dairy | 13-13-22bbc | 1946 | 1 | 52.0 | 2226.0 | 1/31/1946 | 2278.0 | Exempt | no | |
| 530775 | | | Southwest Gas Corp | 13-13-22bbd | | | | | | | Other | no | capped 3/28/1991 |
| 913095 | | | ADEQ | 13-13-22bcc | | | | | | | Monitor | no | |
| 913096 | | | ADEQ | 13-13-22bcc | | | | | | | Monitor | no | |
| 700024 | | | E. & S. Anderson | 13-13-22bda | | | | | | | Exempt | no | |
| 700059 | | | D. G. Markham | 13-13-22bdb | | | | | | | Exempt | no | |
| 700007 | | | M. & S. Lotenero | 13-13-22bdd | | | | | | | Non-exempt | no | |
| 700090 | | | Non-Owner (ADWR) | 13-13-22ca | | | | | | | Exempt | no | |
| 700068 | | | Non-Owner (ADWR) | 13-13-22caa | | | | | | | Exempt | no | |
| 596369 | | | M. McKenzie | 13-13-22caa | | | | | | | Monitor | no | |
| | 321710111001401 | | Furrey, G. L. | 13-13-22caa | 1942-1957 | 17 | 107.0 | 2191.1 | 12/22/1957 | 2298.1 | Exempt | no | |
| 700060 | | | J. D. Krogstad | 13-13-22cac | | | | | | | Exempt | no | |
| 529334 | | | Southwest Gas Corp | 13-13-22cbb | | | | | | | Other | no | capped 9/29/1990 |
| 596372 | | IRA-26 | ADEQ | 13-13-22cbd | | | | | | | Monitor | no | |
| 596284 | | | ADEQ | 13-13-22cbd | | | | | | | Monitor | no | |
| 700054 | | | Non-Owner (ADWR) | 13-13-22cca | | | | | | | Exempt | no | |
| 530831 | | | ADEQ | 13-13-22ccc | | | | | | | Monitor | no | Monitor or Piezometer well |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 539788 | | | E. H. Williams | 13-13-22cdb | | | | | | | Exempt | no | |
| 530772 | | | Southwest Gas Corp | 13-13-22cdb | | | | | | | Other | no | capped 3/28/1991 |
| 626042 | 321703110595201 | Well 66-R | Flowing Wells Irrigation Dist. | 13-13-22dac | 1995-2010 | 5 | 198.0 | 2115.1 | 2/22/2010 | 2313.1 | Non-exempt | yes | |
| 700089 | | | Flowing Wells Irrigation Dist. | 13-13-22dac | | | | | | | Exempt | no | |
| 626040 | 321658111000901 | Well No. 70 | Flowing Wells Irrigation Dist. | 13-13-22dcb | 1962-2010 | 14 | 198.4 | 2109.2 | 2/2/2010 | 2307.6 | Non-exempt | yes | |
| 700027 | | | Non-Owner (ADWR) | 13-13-22dcb | | | | | | | Exempt | no | |
| 581743 | 321405110560401 | WR-0141B | ADEQ | 13-13-22dcc | 2002-2011 | 10 | 291.6 | 2181.4 | 1/25/2011 | 2473.0 | Monitor | no | |
| 562355 | | | ADEQ | 13-13-22dcc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 562012 | | | ADEQ | 13-13-22dcc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 561744 | | | ADEQ | 13-13-22dcc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 626035 | 321646110595701 | Well No. 75 | Flowing Wells Irrigation Dist. | 13-13-22dcd | 1995-2010 | 7 | 196.1 | 2112.0 | 2/22/2010 | 2308.1 | Non-exempt | yes | |
| 531354 | | | Southwest Gas Corp | 13-13-22ddd | | | | | | | Other | no | capped 5/16/1991 |
| 909484 | | | Pima County | 13-13-21 | | | | | | | Other | no | Geotechnical well |
| 912039 | | | ADOT | 13-13-21 | | | | | | | Other | no | Geotechnical well |
| 525299 | | | COT | 13-13-21 | | | | | | | Other | no | Exploration well |
| 910176 | | | Pima County | 13-13-21 | | | | | | | Other | no | Geotechnical well |
| 616505 | 321733111005201 | | J. Kai | 13-13-21aac | 1999 | 1 | 153.8 | 2122.0 | 5/21/1999 | 2275.7 | Non-exempt | yes | |
| 900260 | | | ADEQ | 13-13-21add | | | | | | | Monitor | no | |
| 801644 | | | P-3 Investments | 13-13-21b | | | | | | | Exempt | no | capped 1/29/2007 |
| 619838 | 321736111011501 | Z-001A | COT | 13-13-21bab | 1960-2010 | 37 | 156.4 | 2094.0 | 12/15/2010 | 2250.4 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 700038 | | | | 13-13-21bab | | | | | | | Exempt | no | |
| 574713 | 321720111014301 | WR-341A | COT (TW) | 13-13-21bcb | 2001-2002 | 2 | 129.5 | 2118.4 | 1/23/2002 | 2248.0 | Monitor | no | |
| 574722 | 321720111014401 | WR-335A | COT (TW) | 13-13-21bcb | | | | | | 2248.0 | Monitor | no | Piezometer |
| 574723 | 321722111013901 | WR-334A | COT (TW) | 13-13-21bcb | | | | | | 2250.0 | Monitor | no | Piezometer |
| 574724 | 321725111014001 | WR-334A | COT (TW) | 13-13-21bcb | | | | | | 2249.0 | Monitor | no | Piezometer |
| 523663 | | | UPRR | 13-13-21bd | | | | | | | Other | no | Exploration well |
| 547044* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned 11/1/1999 |
| 541072 | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | Monitor or Piezometer well |
| 547041* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned - authority issued 9/21/1999 |
| 547042* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned - authority issued 9/21/1999 |
| 551949* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned 11/1/1999 |
| 541073 | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | Monitor or Piezometer well |
| 551951* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned - authority issued 9/21/1999 |
| 547043* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned - authority issued 9/21/1999 |
| 551950* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned 11/1/1999 |
| 547045* | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | abandoned 2/4/1995 |
| 541074 | | | Quality Paving & Utility Co. | 13-13-21bda | | | | | | | Monitor | no | Monitor or Piezometer well |
| 574718 | 321660111012601 | WR-339A | COT (TW) | 13-13-21cac | | | | | | 2257.0 | Monitor | no | Piezometer |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 563968 | | | PC (RWRD) | 13-13-21cac | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563970 | | | PC (RWRD) | 13-13-21cac | | | | | | | Monitor | no | Monitor or Piezometer well |
| 563969 | | | PC (RWRD) | 13-13-21cac | | | | | | | Monitor | no | Monitor or Piezometer well |
| 216370 | | | | 13-13-21cac | | | | | | | Exempt | no | Recovery well |
| 574721 | 321708111012701 | WR-336A | COT (TW) | 13-13-21cba | | | | | | 2254.0 | Monitor | no | Piezometer |
| 574721 | 321707111012701 | WR-336A | COT (TW) | 13-13-21cba | | | | | | 2254.0 | Monitor | no | Piezometer |
| 574720 | 321706111013001 | WR-337A | COT (TW) | 13-13-21cba | | | | | | 2256.0 | Monitor | no | Piezometer |
| 529266 | 321708111012801 | A-049A | COT | 13-13-21cbb | 1995-2011 | 12 | 154.6 | 2099.4 | 1/3/2011 | 2254.0 | Monitor | no | Monitor or Piezometer well |
| 619869 | 321658111013101 | INFILCO A | COT | 13-13-21cbd | 1969-2011 | 20 | 153.8 | 2103.8 | 1/10/2011 | 2257.6 | Non-exempt | yes | |
| 700069 | | | Non-Owner (ADWR) | 13-13-21ccd | | | | | | | Exempt | no | |
| 574719 | 321646111012801 | WR-338A | COT (TW) | 13-13-21cdb | | | | | | 2260.0 | Monitor | no | Piezometer |
| 565667 | 321648111012201 | WR-317A | COT (TW) | 13-13-21cdc | | | | | | 2262.0 | Monitor | no | |
| 529263 | 321651111011501 | WR-201A | COT | 13-13-21cdd | 1995-2011 | 12 | 145.7 | 2115.3 | 1/3/2011 | 2261.0 | Monitor | no | Monitor or Piezometer well |
| 700052 | | | Non-Owner (ADWR) | 13-13-21cdd | | | | | | | Exempt | no | |
| 700026 | | | Non-Owner (ADWR) | 13-13-21d | | | | | | | Exempt | no | |
| 640761* | | | A.M. Radloff | 13-13-21daa | | | | | | | Exempt | no | abandoned 6/10/2006 |
| 700021 | | | H. L. Clouch | 13-13-21dab | | | | | | | Exempt | no | |
| 700067 | | | J. C. Newell | 13-13-21dab | | | | | | | Exempt | no | |
| 700018 | | | Non-Owner (ADWR) | 13-13-21dac | | | | | | | Exempt | no | |
| 700019 | | | Non-Owner (ADWR) | 13-13-21dac | | | | | | | Exempt | no | |
| | 321703111005301 | UA 736 | | 13-13-21dac | 1952-1977 | 18 | 102.6 | 2160.4 | 1/31/1977 | 2263.0 | Exempt | no | |
| 700053 | | | Non-Owner (ADWR) | 13-13-21dad | | | | | | | Exempt | no | |
| 639735 | | | PCRWRD | 13-13-21dcc | | | | | | | Non-exempt | yes | |
| 562753 | 321648111010801 | WR-310A | COT | 13-13-21dcc | 1951-2005 | 21 | 136.2 | 2130.8 | 12/4/2005 | 2267.0 | Monitor | no | Monitor or Piezometer well |
| 545091 | | | Santa Fe Pacific | 13-13-21ddc | | | | | | | Other | no | Exploration well |
| 910816* | | | ADOT | 13-13-20 | | | | | | | Other | no | Geotechnical well - abandoned 6/23/2009 |
| 525300 | | | COT | 13-13-20 | | | | | | | Other | no | Exploration well |
| 909483 | | | Pima County | 13-13-20 | | | | | | | Other | no | Geotechnical well |
| 910175 | | | Pima County | 13-13-20 | | | | | | | Other | no | Geotechnical well |
| 534056 | | | COT | 13-13-20 | | | | | | | Other | no | Exploration well |
| 911842 | | | ADOT | 13-13-20 | | | | | | | Other | no | Geotechnical well |
| 700104 | | | Non-Owner (ADWR) | 13-13-20aaa | | | | | | | Exempt | no | |
| 574716 | 321738111015601 | WR-343A | COT (TW) | 13-13-20aab | | | | | | 2246.0 | Monitor | no | Piezometer |
| 574715 | 321726111015601 | WR-344A | COT (TW) | 13-13-20aac | | | | | | 2247.0 | Monitor | no | Piezometer |
| 529265 | 321725111014101 | | COT | 13-13-20aac | 1995-2011 | 12 | 157.3 | 2090.7 | 1/3/2011 | 2248.0 | Monitor | no | Monitor or Piezometer well |
| 574714 | 321738111020301 | WR-340A | COT (TW) | 13-13-20aba | 2001-2002 | 2 | 132.0 | 2114.0 | 1/23/2002 | 2246.0 | Monitor | no | |
| 574717 | 321738111021001 | WR-342A | COT (TW) | 13-13-20abb | | | | | | 2246.0 | Monitor | no | Piezometer |
| 521331 | | CDC-W11 | PC (DEQ/SW) | 13-13-20abb | 1988-2011 | 153 | 149.4 | 2092.3 | 3/30/2011 | 2239.8 | Monitor | no | Monitor or Piezometer well |
| 529264 | 321726111020401 | | COT | 13-13-20abc | 2001-2011 | 11 | 150.6 | 2087.4 | 1/3/2011 | 2238.0 | Monitor | no | Monitor or Piezometer well |
| 619936 | 321709111020901 | | COT | 13-13-20acc | 1985-2011 | 18 | 158.0 | 2090.0 | 3/1/2011 | 2248.0 | Non-exempt | yes | |
| 582679 | 321714111020301 | | COT (TW) | 13-13-20acd | 1995-2011 | 8 | 161.3 | 2089.7 | 3/2/2011 | 2251.0 | Non-exempt | yes | Recovery Well Permit No. 74-582678 |
| 520139* | | SC-01 | PC (RWRD) | 13-13-20adb | 1988-2005 | 137 | | | | | Monitor | no | Monitor or Piezometer well; abandoned 6/27/2005 |
| 207211 | | SC-01R | PC (RWRD) | 13-13-20adb | 2005-2011 | 70 | 155.7 | 2088.3 | 4/21/2011 | 2244.0 | Monitor | no | Replaced 55-520139 |
| 700003 | | | Non-Owner (ADWR) | 13-13-20bba | | | | | | | Exempt | no | |
| 809438 | 321738111023101 | CF-015A | COT | 13-13-20bba | 1950-1969 | 17 | 95.0 | 2154.0 | 1/28/1969 | 2249.0 | Monitor | no | well dry on 11/18/1981 |
| 619845 | 321735111023501 | Z-009A | COT | 13-13-20bbd | | | | | | 2253.0 | Non-exempt | no | well dry on 12/15/2010 |
| 619846 | 32175111024101 | Z-010A | COT | 13-13-20bbd | 1981-1987 | 7 | 130.4 | 2131.0 | 12/27/1987 | 2261.6 | Non-exempt | no | well dry on 12/15/2010 |
| 530631 | 321714111015601 | | COT | 13-13-20dab | 2001-2010 | 10 | 150.9 | 2092.1 | 1/12/2010 | 2243.0 | Monitor | no | Monitor or Piezometer well |
| 619909 | 321651111015401 | SF-001A | COT | 13-13-20ddc | 1947-2011 | 46 | 172.7 | 2093.3 | 3/3/2011 | 2266.0 | Non-exempt | yes | |
| 605199 | 321647111015501 | UA 732 | Pima County | 13-13-20ddc | 1965-2000 | 6 | 144.6 | 2124.0 | 6/28/2000 | 2268.4 | Non-exempt | yes | |
| 507184 | 321652111014401 | WR-068A | COT | 13-13-20ddd | 2001-2002 | 3 | 129.2 | 2119.8 | 12/18/2002 | 2249.0 | Other | no | Exploration well; well dry on 1/7/2008 |
| 529295 | 321653111014501 | | COT | 13-13-20ddd | 1995-2011 | 12 | 146.2 | 2102.8 | 1/3/2011 | 2249.0 | Monitor | no | Monitor or Piezometer well |
| 507183 | | | COT (TW) | 13-13-20ddd | | | | | | | Other | no | Exploration well |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 808939 | | | J. L. & D. R. Daniel | 13-13-19aad | | | | | | | Exempt | no | |
| 538086 | | | D. J. Sweet | 13-13-19abc | | | | | | | Exempt | no | |
| 620316 | 321726111024501 | A-049A | COT | 13-13-19ada | 1986-2010 | 23 | 190.3 | 2087.7 | 12/15/2010 | 2278.0 | Non-exempt | no | |
| 630945 | | | L. W. Goble | 13-13-19cbb | | | | | | | Exempt | no | |
| 620313 | 321650111031801 | A-043A | COT | 13-13-19cdc | 1967-2010 | 29 | 255.2 | 2091.6 | 12/15/2010 | 2346.8 | Non-exempt | no | |
| 640875 | | | T. Owen | 13-13-19dcc | | | | | | | Exempt | no | |
| 534310 | | | Southwest Gas Corp | 13-13-19ddc | | | | | | | Other | no | Exploration well |
| 804680 | 321801111034201 | | J. & C. Baker | 13-13-18 | 1981-1995 | 3 | 174.6 | 2135.4 | 1/19/1995 | 2310.0 | Exempt | no | |
| 636345 | | | K. H. Geissler | 13-13-18 | | | | | | | Exempt | no | |
| 803941 | | | D. & S. Wade | 13-13-18 | | | | | | | Exempt | no | |
| 700521 | | | C. H. Leahland | 13-13-18 | | | | | | | Exempt | no | |
| 604025 | | | CPC SW Materials | 13-13-18aac | | | | | | | Non-exempt | yes | |
| 578822 | | | M. B. Walker | 13-13-18abb | | | | | | | Exempt | no | |
| 800579 | | | N. Wilkins | 13-13-18aca | | | | | | | Exempt | no | |
| 700522 | | | | 13-13-18acb | | | | | | | Exempt | no | |
| 513749 | | | J. & M. Dolores Loya | 13-13-18acb | | | | | | | Exempt | no | |
| 513780 | | | Q. B. Do | 13-13-18acc | | | | | | | Exempt | no | |
| 633103 | | | S. L. Borders | 13-13-18acc | | | | | | | Exempt | no | |
| 638841 | | | W. L. Sligar | 13-13-18acd | | | | | | | Exempt | no | |
| 700526 | | | Droescher | 13-13-18caa | | | | | | | Exempt | no | |
| 633094 | | | G. L. Gooden | 13-13-18caa | | | | | | | Exempt | no | |
| 559648 | | | J. P. Robertson Jr. | 13-13-18caa | | | | | | | Exempt | no | |
| 640321 | 321828111031001 | UA 724 | G. Wagenseller | 13-13-18cab | 1958-1995 | 24 | 103.3 | 2134.7 | 1/19/1995 | 2238.0 | Exempt | no | |
| 624508 | | | A. W. Kreger | 13-13-18cac | | | | | | | Exempt | no | |
| 805549* | | | P. A. Owens | 13-13-18cad | | | | | | | Exempt | no | abandoned |
| 525652 | | | P. A. Owens | 13-13-18cad | | | | | | | Exempt | no | |
| 590316* | | | S. R. & S. W. Johnson | 13-13-18cba | | | | | | | Exempt | no | not drilled - permit expired 5/21/2003 |
| 599700 | | | S. R. & S. W. Johnson | 13-13-18cba | | | | | | | Exempt | no | |
| 631712 | | | P. L. Shorey | 13-13-18cbc | | | | | | | Exempt | no | |
| 518902 | | | B. Nesbitt | 13-13-18cbd | | | | | | | Exempt | no | |
| 808514 | | | S. M. Coburn & D. McQueen | 13-13-18cca | | | | | | | Exempt | no | |
| 809336 | | | S. Neathery | 13-13-18ccb | | | | | | | Exempt | no | |
| 700547 | | | F. Baltz | 13-13-18ccb | | | | | | | Exempt | no | |
| 640161 | | | S. L. Hill | 13-13-18cd | | | | | | | Exempt | no | |
| 700528 | | | D. Schafer | 13-13-18cd | | | | | | | Exempt | no | |
| 700475 | | | Non-Owner (ADWR) | 13-13-18cdb | | | | | | | Non-exempt | no | |
| 700554 | | | P. Blumentritt | 13-13-18cdb | | | | | | | Exempt | no | |
| 804634 | | | C. L. Miley | 13-13-18cdd | | | | | | | Exempt | no | |
| 203469 | | | W. A. Ball | 13-13-18dba | | | | | | | Exempt | no | |
| 201112 | | | G. A. Thibault | 13-13-18dbb | | | | | | | Exempt | no | |
| 700563 | | | F. Coury | 13-13-18dbc | | | | | | | Exempt | no | |
| 639536 | | | D. Pier | 13-13-18dc | | | | | | | Exempt | no | |
| 700476 | | | R. Schad | 13-13-18dcb | | | | | | | Exempt | no | |
| 639136 | | | D. Hedek | 13-13-18dcb | | | | | | | Exempt | no | |
| 700530 | | | V. Anzaldua | 13-13-18dcc | | | | | | | Exempt | no | |
| 700493 | | | L. Shannon | 13-13-17 | | | | | | | Exempt | no | |
| 700492 | | | Southwest Gas Corp | 13-13-17 | | | | | | | Other | no | Cathodic well |
| 904503 | | | ADOT | 13-13-17 | | | | | | | Other | no | Geotechnical well |
| 700494 | | | Cunningham | 13-13-17 | | | | | | | Exempt | no | |
| 911841 | | | ADOT | 13-13-17 | | | | | | | Other | no | Geotechnical well |
| 700562 | | | Unknown | 13-13-17 | | | | | | | Exempt | no | Non-domestic |
| 700495 | | | Tucson Farms Co. | 13-13-17 | | | | | | | Non-exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700491 | | | | 13-13-17 | | | | | | | Exempt | no | Domestic stock |
| 619843 | 321828111014401 | Z-006A | COT | 13-13-17aaa | 1981-2010 | 26 | 162.1 | 2084.9 | 12/15/2010 | 2247.0 | Non-exempt | yes | |
| 601903 | 321818111014301 | | Hotchkiss & Gutierre | 13-13-17aaa | | | | | | 2242.0 | Non-exempt | yes | |
| 596344 | | | ADEQ | 13-13-17aaa | | | | | | | Monitor | no | |
| 700496 | | | PC (NRPR) | 13-13-17aaa | | | | | | | Non-exempt | no | Dewatering |
| 700536 | | | Palm Vista States Inc. | 13-13-17aaa | | | | | | | Non-exempt | no | |
| 908350 | | | ADEQ | 13-13-17aac | | | | | | | Monitor | no | |
| 550429 | | | PC (DEQ/SW) | 13-13-17aac | | | | | | | Monitor | no | Monitor or Piezometer well |
| 908349 | | | ADEQ | 13-13-17aac | | | | | | | Monitor | no | |
| 550462 | | | PC (DEQ/SW) | 13-13-17aba | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700497 | | | Tucson Farms Co. | 13-13-17aba | | | | | | | Non-exempt | no | |
| 633618* | 321831111020501 | | M. L. Smith | 13-13-17abb | | | | | | 2232.0 | Exempt | no | abandoned |
| 206394 | | | M. L. Smith | 13-13-17abb | | | | | | | Exempt | no | |
| 803942* | | | Gradmac Properties LLC | 13-13-17abb | | | | | | | Exempt | no | abandoned 9/28/2005 |
| 619841 | 321824111020901 | | COT | 13-13-17abc | 1981-2010 | 27 | 150.7 | 2082.2 | 12/15/2010 | 2232.9 | Non-exempt | no | |
| 700499 | | | R. H. Ingalls | 13-13-17abc | | | | | | | Exempt | no | |
| 546425 | | | PC (DEQ/SW) | 13-13-17abc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700500 | | | Sunset Dairy Co. | 13-13-17abc | | | | | | | Non-exempt | no | |
| 597306 | | CDC W-33 | ADEQ | 13-13-17abd | | | | | | | Monitor | no | |
| 907269 | | | ADEQ | 13-13-17aca | | | | | | | Monitor | no | capped |
| 550444 | | | PC (DEQ/SW) | 13-13-17aca | | | | | | | Monitor | no | Monitor or Piezometer well |
| 597302 | | CDC W-32 | ADEQ | 13-13-17aca | | | | | | | Monitor | no | |
| 901884 | | | ADEQ | 13-13-17aca | | | | | | | Monitor | no | |
| 906717 | | CDC-PW1 | PC (DEQ/SW) | 13-13-17acb | 2007-2011 | 27 | 156.3 | 2087.2 | 3/30/2011 | 2243.5 | Monitor | no | |
| 590631 | | | Western Stucco | 13-13-17acb | | | | | | | Other | no | Geotechnical well |
| 597305 | | EC-2 | ADEQ | 13-13-17acb | | | | | | | Monitor | no | |
| 907263 | | | ADEQ | 13-13-17acb | | | | | | | Monitor | no | capped |
| 501063 | | | ADOT | 13-13-17acb | | | | | | | Exempt | no | |
| 807222* | | | M. Motes | 13-13-17acb | | | | | | | Exempt | no | abandoned - NOA, 5/1996 |
| 505049 | | | K. D. Allen | 13-13-17acc | | | | | | | Exempt | no | |
| 803972 | | | C. J. & S. A. Barlow | 13-13-17acc | | | | | | | Exempt | no | |
| 639098 | | | K. D. Allen | 13-13-17acc | | | | | | | Exempt | no | |
| 508611 | | | C. B. Halbert | 13-13-17acc | | | | | | | Exempt | no | |
| 633887* | | | K. Gilbert | 13-13-17acc | | | | | | | Exempt | no | abandoned 4/21/2003 |
| 508585 | | | PC (RWRD) | 13-13-17acc | | | | | | | Other | no | Exploration well |
| 550447 | | | PC (DEQ/SW) | 13-13-17acd | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700540 | | | | 13-13-17acd | | | | | | | Monitor | no | |
| 597308 | | CDC W-34c | ADEQ | 13-13-17acd | | | | | | | Monitor | no | |
| 591314 | | | K. L. Hall | 13-13-17acd | | | | | | | Monitor | no | |
| 591315 | | | K. L. Hall | 13-13-17acd | | | | | | | Monitor | no | |
| 907265 | | | ADEQ | 13-13-17acd | | | | | | | Monitor | no | |
| 400293* | | | K. L. Hall | 13-13-17acd | | | | | | | Exempt | no | abandoned 6/29/2001 |
| 805739 | | | M. Lopez | 13-13-17acd | | | | | | | Exempt | no | |
| 597307 | | CDC W-34 | ADEQ | 13-13-17acd | | | | | | | Monitor | no | |
| 907268 | | | ADEQ | 13-13-17acd | | | | | | | Monitor | no | capped |
| 546427 | | | PC (DEQ/SW) | 13-13-17acd | | | | | | | Monitor | no | Monitor or Piezometer well |
| 591313 | | | K. L. Hall | 13-13-17acd | | | | | | | Other | no | Geotechnical well |
| 907267 | | | ADEQ | 13-13-17acd | | | | | | | Monitor | no | capped |
| 550446 | | | PC (DEQ/SW) | 13-13-17ada | | | | | | | Monitor | no | Monitor or Piezometer well |
| 801579* | | | Acacia Gardens LLC | 13-13-17ada | | | | | | | Non-exempt | yes | abandoned 9/14/2001 |
| 546426* | | CDC W-22 | PC (DEQ/SW) | 13-13-17adb | | | | | | | Monitor | no | Monitor or Piezometer well - abandoned 5/10/2006 |
| 904657 | | | ADEQ | 13-13-17adb | | | | | | | Monitor | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| * | 321807111014501 | | Jaynes Station Irrigation Dist. | 13-13-17add | 1952-1970 | 10 | 94.3 | 2137.8 | 12/16/1970 | 2232.0 | Exempt | no | well destroyed |
| 700472 | | | Jaynes Station Irrigation Dist. | 13-13-17add | | | | | | | Exempt | no | |
| 700502 | | | Tucson Farms Co. | 13-13-17b | | | | | | | Non-exempt | no | |
| 803437 | 321825111021501 | | W. Hotchkiss | 13-13-17baa | | | | | | 2232.8 | Non-exempt | yes | |
| 604024 | 321819111021601 | | CPC Arizona Holdings, Inc. | 13-13-17bad | 1981-2000 | 4 | 118.2 | 2116.8 | 2/24/2000 | 2235.0 | Non-exempt | yes | |
| 803439 | | | W. Hotchkiss | 13-13-17bad | | | | | | | Exempt | no | |
| 803438 | | | W. Hotchkiss | 13-13-17bad | | | | | | | Exempt | no | |
| 803440 | | | W. Hotchkiss | 13-13-17bad | | | | | | | Exempt | no | |
| 208293 | | | WCCS Properties LLC | 13-13-17bbc | | | | | | | Exempt | no | |
| 591312 | | | K. L. Hall | 13-13-17bcb | | | | | | | Other | no | Geotechnical well |
| 700503 | | | Ready Mix | 13-13-17bd | | | | | | | Non-exempt | no | |
| 604027 | 321806111021301 | UA 718 | CPC SW Materials | 13-13-17bdd | 1963-1995 | 5 | 104.8 | 2133.2 | 1/24/1995 | 2238.0 | Non-exempt | yes | |
| 510904 | 321806111021501 | | CPC SW Materials | 13-13-17bdd | 1987-2011 | 10 | 148.4 | 2088.6 | 2/21/2011 | 2237.0 | Non-exempt | yes | capped |
| 700504 | | | L. Bays | 13-13-17bdd | | | | | | | Non-exempt | no | |
| 625469 | | | CA Portland Cement | 13-13-17caa | | | | | | | Non-exempt | yes | |
| 521330 | | | PC (RWRD) | 13-13-17caa | | | | | | | Monitor | no | Monitor or Piezometer |
| 700505 | | | TPAC - Kiewit | 13-13-17caa | | | | | | | Exempt | no | |
| 594505 | | | TPAC - Kiewit | 13-13-17caa | 2009-2011 | 12 | 149.1 | 2093.5 | 3/30/2011 | 2242.6 | Non-exempt | no | Replaced 55-625469 |
| 521330 | | CDC-W13 | PC (DEQ/SW) | 13-13-17caa | 1988-2011 | 150 | 149.5 | 2089.5 | 3/30/2011 | 2238.9 | Monitor | no | Monitor or Piezometer well |
| 521329 | | CDC-W12 | PC (RWRD) | 13-13-17cab | 1988-2011 | 149 | 148.1 | 2090.67? | 3/30/2011 | 2238.0 | Exempt | no | Water Withdrawal Permit No. 59-521660 |
| 509598 | | | PC (RWRD) | 13-13-17cad | | | | | | | Non-exempt | no | Non-service well |
| 700543 | | | PC (RWRD) | 13-13-17cda | | | | | | | Monitor | no | |
| 508571 | | | PC (RWRD) | 13-13-17cda | | | | | | | Other | no | Exploration well |
| 508579 | | | PC (RWRD) | 13-13-17cda | | | | | | | Other | no | Exploration well |
| 700551 | | | | 13-13-17cda | | | | | | | Monitor | no | |
| 519856 | | | PC (RWRD) | 13-13-17cda | | | | | | | Monitor | no | Monitor or Piezometer |
| 508583 | | | PC (RWRD) | 13-13-17cda | | | | | | | Other | no | Exploration well |
| 589044 | | | PC (DEQ/SW) | 13-13-17cda | | | | | | | Monitor | no | |
| 508587 | | | PC (RWRD) | 13-13-17cda | | | | | | | Other | no | Exploration well |
| 521332 | | CDC-W10 | PC (RWRD) | 13-13-17cda | 1987-2011 | 54 | 146.6 | 2091.2 | 3/30/2011 | 2237.9 | Monitor | no | Monitor or Piezometer well |
| 508566 | | | PC (RWRD) | 13-13-17cda | | | | | | | Other | no | Exploration well |
| 700544 | | | | 13-13-17cda | | | | | | | Monitor | no | |
| 700550 | | | | 13-13-17cdd | | | | | | | Monitor | no | |
| 700549 | | | PC (RWRD) | 13-13-17cdd | | | | | | | Monitor | no | |
| 519854 | | | PC (RWRD) | 13-13-17cdd | | | | | | | Monitor | no | Monitor or Piezometer |
| 508580 | | | PC (RWRD) | 13-13-17cdd | | | | | | | Other | no | Exploration well |
| 700448 | | | ADEQ | 13-13-17d | | | | | | | Exempt | no | |
| 603976 | | | ADOT | 13-13-17d | | | | | | | Exempt | no | |
| 550461 | | | PC (DEQ/SW) | 13-13-17daa | | | | | | | Monitor | no | Monitor or Piezometer |
| 700539 | | | D. Simmons | 13-13-17daa | | | | | | | Exempt | no | |
| 550445 | | | PC (DEQ/SW) | 13-13-17dab | | | | | | | Monitor | no | Monitor or Piezometer |
| 627346* | | | ADOT | 13-13-17dac | | | | | | | Exempt | no | abandoned 5/12/2006 |
| 700449 | | | ADEQ | 13-13-17dac | | | | | | | Exempt | no | |
| | 321755111014601 | UA 720 | Jaynes Station Irrigation Dist. | 13-13-17dad | 1938-1976 | 49 | 109.6 | 2132.4 | 12/8/1976 | 2242.0 | Other | no | |
| 606816 | 321751111014401 | | Flowing Wells School Dist. | 13-13-17dad | | | | | | 2247.0 | Non-exempt | yes | |
| 700537 | | | Non-Owner (ADWR) | 13-13-17dad | | | | | | | Non-exempt | no | |
| 700506 | | | Unknown | 13-13-17db | | | | | | | Exempt | no | McDaniel Well & Machine Co. (driller) |
| 806831* | | | PC (DEQ/SW) | 13-13-17dba | | | | | | | Exempt | no | abandoned - NOA, 7/1994 |

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# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700447 | | | | 13-13-17dba | | | | | | | Monitor | no | |
| 597303 | | CDC W-36 | ADEQ | 13-13-17dba | | | | | | | Monitor | no | |
| 700446 | | | | 13-13-17dba | | | | | | | Monitor | no | |
| 906715 | | CDC-PEX1 | PC (DEQ/SW) | 13-13-17dbb | 2009-2011 | 9 | 148.1 | 2090.9 | 3/30/2011 | 2238.9 | Monitor | yes | Water Withdrawal Permit No. 59-215984 |
| 906714 | | CDC-PW2 | PC (DEQ/SW) | 13-13-17dbb | 2007-2011 | 48 | 151.4 | 2091.2 | 3/30/2011 | 2242.6 | Monitor | no | |
| 804666* | | | DFA LLC | 13-13-17dbb | | | | | | | Exempt | no | abandoned 11/20/2009 |
| 908353 | | | ADEQ | 13-13-17dbb | | | | | | | Monitor | no | capped |
| 542138 | | CDC-W19 | PC (RWRD) | 13-13-17dbc | 1994-2010 | 103 | 139.9 | 2092.1 | 3/26/2010 | 2232.0 | Monitor | no | Monitor or Piezometer well |
| 526200 | | | PC (RWRD) | 13-13-17dbc | | | | | | | Monitor | no | Monitor or Piezometer |
| 700508 | | | Catalina Court | 13-13-17dbc | | | | | | | Non-exempt | no | |
| 700542* | | | TPAC - Kiewit | 13-13-17dbc | | | | | | | Exempt | no | abandoned |
| 597304 | | EC-1 | ADEQ | 13-13-17dbd | | | | | | | Monitor | no | |
| 638815 | | 4-HIRE | S. T. Trucking | 13-13-17dbd | 2006-2011 | 29 | 152.1 | 2090.5 | 3/30/2011 | 2242.6 | Exempt | no | |
| 906716 | | CDC-PW3 | PC (DEQ/SW) | 13-13-17dbd | 2007-2011 | 33 | 153.6 | 2091.4 | 3/30/2011 | 2245.0 | Monitor | no | |
| 521333 | | | PC (RWRD) | 13-13-17dca | | | | | | | Exempt | no | 59-521660 |
| 526198 | | CDC-W16 | PC (DEQ/SW) | 13-13-17dca | 1989-2011 | 168 | 151.2 | 2091.3 | 3/30/2011 | 2242.6 | Monitor | yes | Monitor or Piezometer well |
| 805739 | | PCP | M. Lopez | 13-13-17dca | 2006-2011 | 13 | 254.5 | 2091.3 | 3/30/2011 | 2245.9 | Exempt | no | |
| 545643 | | | PC (DEQ/SW) | 13-13-17dcb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700545 | | | PC (DEQ/SW) | 13-13-17dcb | | | | | | | Monitor | no | |
| 513876 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Non-exempt | no | 59-513876 |
| 589047 | | | PC (DEQ/SW) | 13-13-17dcb | | | | | | | Monitor | no | |
| 589045 | | | PC (DEQ/SW) | 13-13-17dcb | | | | | | | Monitor | no | |
| 521749 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700546 | | | | 13-13-17dcb | | | | | | | Monitor | no | |
| 508576 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Other | no | Exploration well |
| 542139 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 508569 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Other | no | Exploration well |
| 508584 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Other | no | Exploration well |
| 700552 | | | | 13-13-17dcb | | | | | | | Monitor | no | |
| 519855 | | | PC (RWRD) | 13-13-17dcb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 513866 | | CDC-W5 | PC (DEQ/SW) | 13-13-17dcb | 1987-2011 | 165 | 144.5 | 2091.4 | 3/30/2011 | 2235.9 | Monitor | no | Monitor or Piezometer well |
| 526200 | | CDC-W14 | PC (DEQ/SW) | 13-13-17dcb | 1989-2011 | 165 | 148.7 | 2093.4 | 3/30/2011 | 2242.1 | Monitor | no | |
| 521749 | | CDC-W15 | PC (DEQ/SW) | 13-13-17dcb | 1988-2011 | 129 | 141.8 | 2091.5 | 3/30/2011 | 2233.3 | Monitor | no | Monitor or Piezometer well |
| 542139 | | CDC-W18 | PC (DEQ/SW) | 13-13-17dcb | 1994-2011 | 109 | 147.1 | 2092.2 | 3/30/2011 | 2239.3 | Monitor | no | Monitor or Piezometer well |
| 700548 | | | | 13-13-17dcc | | | | | | | Monitor | no | |
| 508574 | | | PC (RWRD) | 13-13-17dcc | | | | | | | Other | no | Exploration well |
| 700553 | | | | 13-13-17dcc | | | | | | | Monitor | no | |
| 546001 | | | PC (DEQ/SW) | 13-13-17dcc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 589046 | | | PC (DEQ/SW) | 13-13-17dcc | | | | | | | Monitor | no | |
| 508578 | | | PC (RWRD) | 13-13-17dcc | | | | | | | Other | no | Exploration well |
| 700538 | | | PC (DEQ/SW) | 13-13-17dcc | | | | | | | Monitor | no | |
| 589043 | | | PC (DEQ/SW) | 13-13-17dcc | | | | | | | Monitor | no | |
| 700510 | | | Non-Owner (ADWR) | 13-13-17dcd | | | | | | | Exempt | no | |
| 700473* | | | Dow Chemical Financial Corp | 13-13-17dcd | | | | | | | Non-exempt | no | Number changed to 55-482314 (10/8/2009) |
| 508572 | | | PC (RWRD) | 13-13-17dcd | | | | | | | Other | no | Exploration well |
| 508586 | | | PC (RWRD) | 13-13-17dcd | | | | | | | Other | no | Exploration well |
| 482314* | | | Dow Chemical Financial Corp | 13-13-17dcd | | | | | | | Non-exempt | no | abandoned 11/29/2009 |
| 542137 | | CDC-W17 | PC (DEQ/SW) | 13-13-17dcd | 1994-2009 | 94 | 148.1 | 2094.2 | 7/10/2009 | 2242.3 | Monitor | no | Monitor or Piezometer well |
| | | | | | | | | | | | | | |
| | 321742111020001 | UA 723 | Drake, L. | 13-13-17dcd | 1939-1956 | 31 | 77.6 | 2162.4 | 2/1/1956 | 2240.0 | Exempt | no | |
| 700520 | | | Curly Horn Partners | 13-13-17dda | | | | | | | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 633896 | | | ADOT | 13-13-17dda | | | | | | | Exempt | no | |
| 700516 | | | J. Shay | 13-13-17dda | | | | | | | Exempt | no | |
| 904981 | | | ADOT | 13-13-17dda | | | | | | | Monitor | no | capped 6/15/2006 |
| 904980 | | | ADOT | 13-13-17dda | | | | | | | Monitor | no | |
| 564129 | | | Jenicouga Inc. | 13-13-17ddb | | | | | | | Monitor | no | |
| 564127 | | | Jenicouga Inc. | 13-13-17ddb | | | | | | | Monitor | no | |
| 564130 | | | Jenicouga Inc. | 13-13-17ddb | | | | | | | Monitor | no | |
| 564128 | | | Jenicouga Inc. | 13-13-17ddb | | | | | | | Monitor | no | |
| 800564* | | | ADOT | 13-13-17ddb | | | | | | | Exempt | no | abandoned 9/1/2006 |
| 634179 | | | ADOT | 13-13-17ddc | | | | | | | Exempt | no | |
| 526199 | | | PC (RWRD) | 13-13-17ddc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 700474 | | | L. Hayt | 13-13-17ddd | | | | | | | Exempt | no | |
| 700450 | | | The Greenery | 13-13-17ddd | | | | | | | Exempt | no | |
| 700507 | | | Southern Pacific Transportation Co. | 13-13-17ddd | | | | | | | Non-exempt | no | |
| 909150* | | | Terracon | 13-13-16 | | | | | | | Other | no | Geotechnical well - abandoned 7/31/2008 |
| 912040 | | | ADOT | 13-13-16 | | | | | | | Other | no | Geotechnical well |
| 908833 | | | PC (DOT) | 13-13-16 | | | | | | | Other | no | Geotechnical well |
| 800858* | 321829111004401 | UA 711 | Pima County | 13-13-16aaa | 1955-2003 | 53 | 166.5 | 2096.7 | 10/31/2003 | 2263.2 | Non-exempt | yes | abandoned 1/13/2005 |
| 800115* | 321829111004901 | | Scotia Joint Venture | 13-13-16aab | | | | | | 2257.0 | Non-exempt | yes | abandoned 12/18/2007 |
| 511738* | 321826111004901 | | Scotia Joint Venture | 13-13-16aab | 1995-2005 | 2 | 157.1 | 2099.9 | 1/18/2005 | 2257.0 | Non-exempt | no | abandoned 5/12/2007 |
| 627556* | | | Edgewood Investors LLC | 13-13-16ab | | | | | | | Exempt | no | destroyed |
| 603842 | 321825111005701 | | P. A. White | 13-13-16aba | | | | | | 2253.0 | Non-exempt | yes | |
| 700478 | | | B. Lanier | 13-13-16abb | | | | | | | Exempt | no | |
| 633498 | | | Daisy Education Center | 13-13-16abb | | | | | | | Exempt | no | |
| 520678 | | | Daisy Education Center | 13-13-16abb | | | | | | | Exempt | no | |
| 610240 | 321825111010501 | | B. E. Lawson | 13-13-16abc | 1990-1995 | 2 | 125.5 | 2124.5 | 1/23/1995 | 2250.0 | Non-exempt | yes | |
| 558835* | | | B. E. Lawson | 13-13-16abc | | | | | | | Exempt | no | not drilled |
| 806922* | | | PC (RFCD) | 13-13-16acb | | | | | | | Exempt | no | abandoned 10/1994 |
| 627553 | | | Tucson Sand & Soil | 13-13-16ad | | | | | | | Exempt | no | capped |
| 640094 | | | F. Marchese | 13-13-16ad | | | | | | | Exempt | no | |
| 627555 | | | Tucson Sand & Soil | 13-13-16ad | | | | | | | Exempt | no | |
| 627552* | | | Edgewood Investors LLC | 13-13-16ad | | | | | | | Non-exempt | yes | destroyed |
| 700479 | | | ADEQ | 13-13-16adb | | | | | | | Exempt | no | |
| 573564 | 321802111004501 | USGS No. 64 | USGS | 13-13-16add | 1948-2010 | 2 | 149.7 | 2105.3 | 3/2/2010 | 2255.0 | Monitor | no | Piezometer |
| 700469 | | | J. Livingston | 13-13-16add | | | | | | | Exempt | no | |
| 575421 | | | Pima County | 13-13-16add | | | | | | | Exempt | no | |
| 515641 | | | Southwest Gas Corp | 13-13-16bca | | | | | | | Other | no | Exploration well |
| 619842 | 321813111012401 | Z-005A | COT | 13-13-16bdb | 1980-2010 | 27 | 161.9 | 2088.3 | 12/15/2010 | 2250.2 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 809151 | | | J. & M. Fleming | 13-13-16bdc | | | | | | | Exempt | no | |
| 700486 | | | F. Thomas | 13-13-16bdc | | | | | | | Exempt | no | |
| 508330 | | | Scaramella Action | 13-13-16bdd | | | | | | | Non-exempt | no | |
| 628095 | | | M. Ingram et. al. | 13-13-16bdd | | | | | | | Non-exempt | yes | |
| 511213 | | | A. R. Curtis | 13-13-16bdd | | | | | | | Non-exempt | no | |
| 700487 | | | C. Johnson | 13-13-16c | | | | | | | Exempt | no | |
| 800655* | | | Westland Investments | 13-13-16ca | | | | | | | Exempt | no | duplicate of 55-801206; Diamond Grove MHP |
| 801206 | 321757111011901 | ASLD 35-26639 | Diamond Grove | 13-13-16cad | | | | | | 2251.0 | Non-exempt | yes | |
| 700488 | | | W.Adams | 13-13-16cb | | | | | | | Exempt | no | |
| 700489 | | | Theis | 13-13-16cb | | | | | | | Exempt | no | |
| 700541 | | | L. Soon | 13-13-16cbb | | | | | | | Exempt | no | |
| 636504 | | | M. A. Henson | 13-13-16cbc | | | | | | | Exempt | no | |
| 804544 | | | O. C. Satterwhite | 13-13-16cbc | | | | | | | Exempt | no | |
| 636505 | | | C. E. Henson | 13-13-16cc | | | | | | | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 639461 | | | F. H. Gilbert | 13-13-16ccc | | | | | | | Exempt | no | |
| 640346 | | | Thompson & Thomas | 13-13-16ccc | | | | | | | Exempt | no | |
| 515640 | | | Southwest Gas Corp | 13-13-16ccc | | | | | | | Other | no | |
| 628418 | | | F. H. Gilbert | 13-13-16ccc | | | | | | | Exempt | no | |
| 700564* | | | Curly Horn Partners | 13-13-16ccc | | | | | | | Exempt | no | abandoned |
| 619840 | 321745111012801 | Z-003A | COT | 13-13-16ccd | 1960-2010 | 33 | 157.5 | 2090.0 | 12/15/2010 | 2247.5 | Non-exempt | yes | |
| 585810 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 594117 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Other | no | Geotechnical well |
| 574684* | | MW-9 | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | abanoned - authority issued 4/30/2007 |
| 585812 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 585813 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 592739* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 594113* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/21/2007 |
| 594115* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 592733* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 6/25/2007 |
| 592735* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 6/25/2007 |
| 574534* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 6/23/2007 |
| 546320* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/21/2007 |
| 539498* | | | E-Z Serve Mgmt Co. | 13-13-16ccd | | | | | | | Other | no | not drilled |
| 546321* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 594116* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/21/2007 |
| 594114* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 4/9/2008 |
| 574533* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 6/23/2007 |
| 585806 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 592734* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 6/26/2007 |
| 592737* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 546319* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/23/2007 |
| 700468 | | | ADEQ | 13-13-16ccd | | | | | | | Exempt | no | Domestic well |
| 594111 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 574532* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/24/2007 |
| 592732* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 4/8/2008 |
| 546323* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/21/2007 |
| 594112* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 585805 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 585807 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 585811 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 592736* | | VE-3 | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 592740* | | AS-2 | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 585808 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 592738* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/22/2007 |
| 546322* | | | Quik Mart Stores Inc. | 13-13-16ccd | | | | | | | Monitor | no | abandoned 5/21/2007 |

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# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 585809 | | | Restructure Petroleum Marketing Services | 13-13-16ccd | | | | | | | Monitor | no | |
| 206198* | | | Quik Mart Stores Inc. | 13-13-16cdc | | | | | | | Monitor | no | abandoned 5/24/2007 |
| 905102* | | | Quik Mart Stores Inc. | 13-13-16cdd | | | | | | | Other | no | not installed |
| 700490 | | | E. Cady | 13-13-16cdd | | | | | | | Exempt | no | |
| 700470 | | | COT | 13-13-16dbd | | | | | | | Non-exempt | no | well was not located |
| 619839 | 321749111004401 | Z-002A | COT | 13-13-16dda | 1952-2010 | 36 | 167.0 | 2098.2 | 12/15/2010 | 2265.2 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 700471 | | | Turkey Farm | 13-13-16ddc | | | | | | | Exempt | no | |
| 598596* | | | Southwest Gas Corp | 13-13-16ddd | | | | | | | Other | no | abandoned 8/3/2004 |
| 908834 | | | PC (DOT) | 13-13-15 | | | | | | | Other | no | Geotechnical well |
| 631711 | | | H. T. Collins | 13-13-15abc | | | | | | | Exempt | no | |
| 519181 | | | Southwest Gas Corp | 13-13-15abd | | | | | | | Other | no | Exploration well |
| | 321820111000001 | A-006A | COT | 13-13-15abd | 1975 | 1 | 128.8 | 2161.2 | 12/31/1975 | 2290.0 | Monitor | no | |
| 617045 | 321808111000301 | Riverside Terrace Well | Amphitheater Public School | 13-13-15acc | 2010 | 1 | 168.1 | 2100.9 | 3/2/2010 | 2269.0 | Non-exempt | yes | |
| 805401 | | | MDWID | 13-13-15acc | | | | | | | Non-exempt | no | |
| 534916 | | | B. Rosenberg | 13-13-15ada | | | | | | | Exempt | no | |
| 700482 | | | MDWID | 13-13-15add | | | | | | | Non-exempt | no | |
| 700534 | | | ADWR | 13-13-15b | | | | | | | Exempt | no | |
| 700483 | | | A. Eager | 13-13-15b | | | | | | | Exempt | no | |
| 639896 | | | E. B. Klotsman | 13-13-15ba | | | | | | | Exempt | no | |
| 542114 | | | J. M. Johnson | 13-13-15bab | | | | | | | Exempt | no | |
| 700535 | | | B. Keller | 13-13-15bbb | | | | | | | Exempt | no | |
| 215971 | | | MDWID | 13-13-15bca | | | | | | | Non-exempt | no | Recovery Well Permit No. 74-570181 |
| 213841* | | | MDWID | 13-13-15bca | | | | | | | Non-exempt | no | abandoned 7/2/2007 |
| 606694* | | | National Bank of Arizona | 13-13-15bcb | | | | | | | Exempt | no | abandoned 5/14/2007 |
| 606693* | 321808111003801 | UA 705 | HSL Riverside Crossing Properties LLC | 13-13-15bcd | 1956-1968 | 23 | 92.0 | 2174.0 | 9/20/1968 | 2266.0 | Non-exempt | yes | abandoned 5/23/2011 |
| 700484 | | | Shamrock Dairy | 13-13-15c | | | | | | | Non-exempt | no | |
| 620325* | 321755111001401 | A-057A | COT | 13-13-15cad | 1980-1986 | 3 | 120.9 | 2149.1 | 12/29/1986 | 2270.0 | Non-exempt | yes | abandoned |
| 800683 | | | E. Franklin | 13-13-15cb | | | | | | | Non-exempt | no | |
| 700466 | | | S. Bowman | 13-13-15cbb | | | | | | | Exempt | no | |
| 619531 | 321756111003501 | | W. Hallquist | 13-13-15cbc | | | | | | | Non-exempt | yes | |
| 599958 | | | W. Hallquist | 13-13-15cbd | | | | | | | Non-exempt | yes | |
| | 321741111002901 | | | 13-13-15ccd | 1950-1979 | 35 | 124.2 | 2147.8 | 1/31/1979 | 2272.0 | Other | no | |
| | 321741111001401 | | Shamrock Dairy | 13-13-15cdd | 1941 | 1 | 37.9 | 2235.1 | 5/8/1941 | 2273.0 | Exempt | no | |
| 600238 | 321750111003101 | ASLD 35-25379 | H. L. Lee | 13-13-15cdd | | | | | | 2265.0 | Non-exempt | yes | |
| 600238 | 321740111003601 | | H. L. Lee | 13-13-15cdd | | | | | | 2268.0 | Non-exempt | yes | |
| 603546 | | | Shamrock Foods Co. | 13-13-15cdd | | | | | | | Non-exempt | yes | |
| 619476* | | | Riverpoint Development | 13-13-15cdd | | | | | | | Non-exempt | yes | abandoned 10/15/1996 |
| 700467 | | | ADWR | 13-13-15cdd | | | | | | | Non-exempt | no | |
| 620320 | 321801110594501 | A-052A | COT | 13-13-15daa | 1981-2011 | 26 | 165.2 | 2113.2 | 2/21/2011 | 2278.4 | Non-exempt | yes | |
| 700560 | | | La Canada SW LLC | 13-13-15daa | | | | | | | Exempt | no | |
| 700561 | | | La Canada SW LLC | 13-13-15daa | | | | | | | Exempt | no | |
| 482252* | | | F. W. Development | 13-13-15daa | | | | | | | Exempt | no | abandoned 4/11/2008 |
| 805694 | | | V. McCarthy | 13-13-15dab | | | | | | | Exempt | no | |
| 620321 | 321755110595201 | A-053A | COT | 13-13-15dac | 1964-2011 | 25 | 164.5 | 2115.1 | 3/2/2011 | 2279.6 | Non-exempt | yes | Recover Well Permit No. 74-560621 |
| 700485 | | | Crystal Springs Water Co. | 13-13-15dad | | | | | | | Non-exempt | no | Withdrawal permit |
| 505380 | | | J. M. Conrad | 13-13-15db | | | | | | | Exempt | no | |
| 604943* | 321800111000301 | ASLD 35-61645 | Sears Paseo Del Rio, LLC | 13-13-15dba | 2005 | 1 | 163.5 | 2108.5 | 2/1/2005 | 2272.0 | Non-exempt | yes | abandoned 2/12/2006 |
| 634723 | | | G. F. Brown | 13-13-15dba | | | | | | | Exempt | no | |
| 552324 | | | COT | 13-13-15dbb | | | | | | | Non-exempt | no | |

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## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 530064 | | | COT | 13-13-15dbb | | | | | | | Non-exempt | no | |
| 526454 | | | COT | 13-13-15dbb | | | | | | | Non-exempt | no | |
| 623932 | 321802111000701 | | J. Schnelle | 13-13-15dbb | 1972 | 1 | 106.6 | 2163.4 | 4/5/1972 | 2270.0 | Exempt | yes | |
| 564423 | 321757111001001 | A-057B | COT | 13-13-15dbc | 2001-2011 | 11 | 169.0 | 2101.0 | 3/2/2011 | 2270.0 | Non-exempt | yes | |
| 603547 | | | Shamrock Foods Co. | 13-13-15dcc | | | | | | | Non-exempt | no | |
| 806038* | | | Pima County | 13-13-15dda | | | | | | | Exempt | no | abandoned 4/11/1991 |
| 638475 | | | C. Monaghan | 13-13-09a | | | | | | | Exempt | no | |
| 559917 | | | Prime Orange Grove LLC | 13-13-09aac | | | | | | | Exempt | no | |
| 801155 | | | M. McFarland | 13-13-09aca | | | | | | | Exempt | no | |
| 636258 | | | J. W. Brown | 13-13-09aca | | | | | | | Exempt | no | |
| 635196 | | | L. K. Randall | 13-13-09acd | | | | | | | Exempt | no | |
| 206885 | | | A. Zitzmann | 13-13-09adc | | | | | | | Exempt | no | |
| 700555 | | | F. H. & C. A. Blackmore Trust | 13-13-09add | | | | | | | Exempt | no | |
| 631312* | | | D. G. Sandiford | 13-13-09bab | | | | | | | Exempt | no | abandoned |
| 208492 | | | D. G. Sandiford | 13-13-09bab | | | | | | | Exempt | no | capped 8/3/2005 |
| 800352 | | | R. A. Teschner | 13-13-09bbb | | | | | | | Exempt | no | |
| 700527 | | | MDWID | 13-13-09bca | | | | | | | Exempt | no | |
| 626739 | 321900111014001 | Deconcini Well | MDWID | 13-13-09bcc | 2010 | 1 | NA | NA | 3/2/2010 | 2235.0 | Non-exempt | yes | obstruction on 3/2/2010, Recovery Well Permit No. 74-570181 |
| 700461 | | | CWUA | 13-13-09bcd | | | | | | | Exempt | no | |
| 805983* | 321856111011301 | | Kaufman and Broad of Tucson Inc. | 13-13-09bdd | | | | | | 2262.0 | Exempt | no | abondoned 1/16/2000 |
| 601999* | | | Estes Co. | 13-13-09ca | | | | | | | Non-exempt | no | abandoned |
| 638517 | | | E. R. Moore | 13-13-09ca | | | | | | | Exempt | no | |
| 801842 | 321844111011201 | Estes Well | MDWID | 13-13-09cad | 1981-2010 | 7 | 162.2 | 2083.8 | 3/2/2010 | 2246.0 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| 803515 | 321856111012701 | | Shannon Business Park LLC | 13-13-09cb | | | | | | 2241.0 | Exempt | no | |
| 596346 | | | ADEQ | 13-13-09cbb | | | | | | | Monitor | no | |
| 596345 | | | ADEQ | 13-13-09cbb | | | | | | | Monitor | no | |
| 509821 | | | MDWID | 13-13-09cbc | | | | | | | Non-exempt | no | |
| 904656 | | | ADEQ | 13-13-09ccc | | | | | | | Monitor | no | |
| 700529 | | | J. G. Moore | 13-13-09ccc | | | | | | | Exempt | no | |
| 620988 | 321832111011201 | Moore Well | MDWID | 13-13-09cdd | 1959-2010 | 18 | 161.8 | 2087.8 | 3/2/2010 | 2249.6 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| 908352 | | | ADEQ | 13-13-09cdc | | | | | | | Monitor | no | |
| 700480 | | | D. Norgard | 13-13-09cdd | | | | | | | Exempt | no | Domestic, stock |
| 700556 | | | Arizona Medical Bldgs | 13-13-09daa | | | | | | | Exempt | no | |
| 635505 | | | Amphitheater Public School | 13-13-09dab | | | | | | | Exempt | no | |
| 803466 | | | Oasis Properties | 13-13-09dac | | | | | | | Exempt | no | |
| 626734 | 321845111004501 | Oracle Jayne Station Well | MDWID | 13-13-09dad | 1995-2010 | 5 | 177.4 | 2082.6 | 3/2/2010 | 2260.0 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| | 321843111010001 | | Clampitt, C. | 13-13-09dca | 1948 | 1 | 73.2 | 2185.8 | 7/30/1948 | 2259.0 | Exempt | no | |
| 626756* | | | MDWID | 13-13-09dca | | | | | | | Non-exempt | no | abandoned 11/13/2000 |
| 502766 | | | Berger-Campbell | 13-13-09ddb | | | | | | | Non-exempt | no | |
| 700477 | | | J. Fitzpatrick | 13-13-09ddb | | | | | | | Exempt | no | |
| 807420 | | | K. L. Ryan | 13-13-09ddb | | | | | | | Non-exempt | no | |
| 601882 | 321835111005301 | ASLD 35-40941 | E. L. Sorensen | 13-13-09ddc | | | | | | 2255.0 | Exempt | no | |
| 800239 | | | W. Bellavance | 13-13-09ddc | | | | | | | Exempt | no | |
| 635162* | | | O. Rowland | 13-13-09ddc | | | | | | | Exempt | no | abandoned - authority issued 9/20/2000 |
| 590642 | | | O. Rowland | 13-13-09ddc | | | | | | | Exempt | no | |
| 566754 | | | ADOT | 13-13-08 | | | | | | | Other | no | Geotechnical well |
| 638960 | | | W. J. Henerfauth | 13-13-08 | | | | | | | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 634004 | | | Pima County | 13-13-08 | | | | | | | Exempt | no | |
| 700531 | | | W. A. Knapp | 13-13-08 | | | | | | | Exempt | no | |
| 567336 | | | ADOT | 13-13-08 | | | | | | | Other | no | Geotechnical well |
| 911840 | | | ADOT | 13-13-08 | | | | | | | Other | no | Geotechnical well |
| 700513 | | | C. Jones | 13-13-08aab | | | | | | | Exempt | no | |
| 639094 | | | Pima County | 13-13-08aba | | | | | | | Exempt | no | |
| 700455 | | | CWUA | 13-13-08aba | | | | | | | Non-exempt | no | Withdrawal permit |
| 800568 | 321857111021001 | | Green Field Country Day School | 13-13-08ac | | | | | | | Non-exempt | yes | |
| 700515 | | | M. L. Howard | 13-13-08acc | | | | | | | Exempt | no | |
| 700514 | | | Green Field Preparatory School | 13-13-08acc | | | | | | | Non-exempt | no | |
| 700481 | | | COT | 13-13-08acd | | | | | | | Non-exempt | no | |
| 626758 | 321910111014301 | Wildwood Well | MDWID | 13-13-08ada | 2000-2010 | 3 | 162.6 | 2076.4 | 3/2/2010 | 2239.0 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| 700456 | | | A. Smith | 13-13-08ada | | | | | | | Exempt | no | |
| 806356* | | | PC (RFCD) | 13-13-08add | | | | | | | Exempt | no | abandoned 7/1992 |
| 619844 | 321920111021601 | Z-007A | COT | 13-13-08baa | 1954-2010 | 54 | 140.4 | 2092.1 | 12/15/2010 | 2232.5 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 700532 | | | Non-Owner (ADWR) | 13-13-08baa | | | | | | | Non-exempt | no | |
| 806449 | | | MIJ Land Mgmt Co. | 13-13-08baa | | | | | | | Exempt | no | capped |
| 700517 | | | T. C. Ingrahm | 13-13-08baa | | | | | | | Other | no | |
| 700518 | | | Arizona Desert School | 13-13-08baa | | | | | | | Non-exempt | no | |
| 626762 | 321859111132101 | Latmore (North) Well | MDWID | 13-13-08bdd | 2005 | 1 | 154.8 | 2067.2 | 1/25/2005 | 2222.0 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| 626738 | 321858111021801 | Latmore (South) Well | MDWID | 13-13-08bdd | | | | | | 2222.0 | Non-exempt | yes | |
| 700519 | | | Non-Owner (ADWR) | 13-13-08bdd | | | | | | | Exempt | no | |
| 700559 | | | CC Family Partners Ltd Partnership | 13-13-08bdd | | | | | | | Exempt | no | |
| 85409 | | | A. L. Boring | 13-13-08bdd | | | | | | | Exempt | no | |
| 85408 | | | A. L. Boring | 13-13-08bdd | | | | | | | Exempt | no | |
| 700558 | | | M. Boring | 13-13-08bdd | | | | | | | Exempt | no | |
| 85407 | | | A. L. Boring | 13-13-08bdd | | | | | | | Exempt | no | |
| 506213 | | | A. L. Boring | 13-13-08bdd | | | | | | | Exempt | no | |
| 621531* | 321836111021301 | UA 676 | L. P. Linson | 13-13-08c | 1946-1995 | 37 | 71.5 | 2162.5 | 1/24/1995 | 2234.0 | Non-exempt | no | well destroyed 1/18/2005 |
| 801056 | | | Pima County | 13-13-08c | | | | | | | Exempt | yes | |
| 801055 | 321857111022001 | ASLD 35-81639 | Pima County | 13-13-08cab | 1987-1995 | 2 | 97.3 | 2123.7 | 1/24/1995 | 2221.0 | Non-exempt | yes | |
| 700457 | | | PC (NRPR) | 13-13-08cbd | | | | | | | Non-exempt | no | Withdrawal permit |
| | 321834111024001 | | Knapp, W. | 13-13-08ccc | 1939-1941 | 3 | 43.0 | 2177.1 | 2/4/1941 | 2220.0 | Other | no | |
| 604023 | 321832111022001 | | CPC SW Materials | 13-13-08ccc | | | | | | 2225.1 | Exempt | no | |
| 700458 | | | Ready Mix | 13-13-08ccc | | | | | | | Other | no | Exploration well |
| 807375* | | | PC (RFCD) | 13-13-08cdd | | | | | | | Exempt | no | abandoned 2/1997 |
| 700459 | | | PC (NRPR) | 13-13-08cdd | | | | | | | Exempt | no | |
| | 321830111021201 | | Jeter, H. E. | 13-13-08cdd | 1952-1966 | 10 | 71.8 | 2163.2 | 1/10/1966 | 2235.0 | Non-exempt | no | |
| 596342 | | | ADEQ | 13-13-08daa | | | | | | | Monitor | no | |
| 596343 | | | ADEQ | 13-13-08daa | | | | | | | Monitor | no | |
| 805222 | 321856111021101 | | Green Field Country Day School | 13-13-08dab | | | | | | | Exempt | no | |
| 700524 | | | M. Simonsen | 13-13-08dab | | | | | | | Exempt | no | |
| 508771* | | | MDWID | 13-13-08dad | | | | | | | Exempt | no | abandoned |
| 598442 | | | ADEQ | 13-13-08dad | | | | | | | Monitor | no | |
| 597309 | | CDC W-35 | ADEQ | 13-13-08dad | | | | | | | Monitor | no | |
| 700523 | | | C. Simonsen | 13-13-08dbb | | | | | | | Exempt | no | |
| 700460 | | | Non-Owner (ADWR) | 13-13-08dbb | | | | | | | Exempt | no | |
| 581746 | 321841111020701 | WR-369A | COT | 13-13-08dcb | 2003-2010 | 9 | 146.6 | 2082.4 | 12/15/2010 | 2229.0 | Monitor | no | |
| 619852 | 321841111021001 | Z-016A | COT | 13-13-08dcb | 1981-2001 | 17 | 116.5 | 2111.5 | 1/18/2001 | 2228.0 | Non-exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700557 | | | DJK&M Real Est. Holdings LLC | 13-13-08dcc | | | | | | | Exempt | no | |
| 908351 | | | ADEQ | 13-13-08dcd | | | | | | | Monitor | no | capped |
| 626757 | 321844111014101 | South Shannon Well | MDWID | 13-13-08dda | 1981-2005 | 6 | 149.7 | 2085.3 | 1/25/2005 | 2235.0 | Non-exempt | yes | Recovery Well Permit No. 74-570181 |
| 806563* | | | PC (RFCD) | 13-13-08ddc | | | | | | | Exempt | no | abandoned 7/6/1993 |
| 806564* | | | PC (RFCD) | 13-13-08ddc | | | | | | | Exempt | no | abandoned 7/6/1993 |
| 700525 | | | A. Curtis | 13-13-08ddc | | | | | | | Exempt | no | |
| 900084 | | | ADEQ | 13-13-08ddd | | | | | | | Monitor | no | |
| 508852 | | | Western Technologies | 13-13-07 | | | | | | | Other | no | Exploration well |
| 910814* | | | ADOT | 13-13-07 | | | | | | | Other | no | Geotechnical well - abandoned 6/18/2009 |
| 911838* | | | ADOT | 13-13-07 | | | | | | | Other | no | Geotechnical well |
| 218270 | | | CA Portland Cement | 13-13-07 | | | | | | | Other | no | Dewatering permit |
| 566755* | | | ADOT | 13-13-07 | | | | | | | Other | no | Geotechnical well - abandoned 7/6/1998 |
| 554004* | | | Tucson Rock & Sand | 13-13-07a | | | | | | | Other | no | Exploration well - abandoned 4/24/1996 |
| 523665 | | | UPRR | 13-13-07aa | | | | | | | Other | no | Exploration well |
| 700453* | | | Manville Bldg. Materials Corp. | 13-13-07aab | | | | | | | Non-exempt | no | abandoned |
| 700452 | | | R. Oliver | 13-13-07abb | | | | | | | Exempt | no | |
| 577722 | | | ADOT | 13-13-07adb | | | | | | | Monitor | no | |
| 577726 | | | ADOT | 13-13-07adb | | | | | | | Monitor | no | Piezometer |
| 577721 | | | ADOT | 13-13-07adb | | | | | | | Monitor | no | Piezometer |
| 577725 | | | ADOT | 13-13-07adb | | | | | | | Monitor | no | Piezometer |
| 577727 | | | ADOT | 13-13-07adc | | | | | | | Monitor | no | Piezometer |
| 577723 | | | ADOT | 13-13-07adc | | | | | | | Monitor | no | |
| 577728 | | | ADOT | 13-13-07add | | | | | | | Monitor | no | Piezometer |
| 400355* | | | ADOT | 13-13-07add | | | | | | | Non-exempt | no | abandoned 8/29/2002 |
| 577724 | | | ADOT | 13-13-07add | | | | | | | Monitor | no | |
| | 321902111024401 | UA 668 | | 13-13-07add | 1947-1961 | 14 | 87.2 | 2124.8 | 1/24/1961 | 2212.0 | Monitor | no | |
| 545689 | | | Silverbell Road LLC | 13-13-07bcc | | | | | | | Exempt | no | |
| 625467 | | | CPC SW Materials | 13-13-07caa | | | | | | | Non-exempt | no | well location is unknown |
| 700509 | | | Ready Mix | 13-13-07caa | | | | | | | Exempt | no | |
| | 321854111031801 | | Tanner | 13-13-07caa | 1960-1981 | 16 | 85.8 | 2116.2 | 12/28/1981 | 2202.0 | Other | no | |
| 800600 | 321835111032001 | | E. Hoffman | 13-13-07cdd | 1990-1995 | 2 | 117.5 | 2135.1 | 1/19/1995 | 2252.6 | Exempt | yes | |
| 513683* | | | M. Bartunek | 13-13-07cdd | | | | | | | Exempt | no | abandoned |
| 604026 | 321842111024701 | | CPC SW Materials | 13-13-07dda | | | | | | 2223.0 | Exempt | no | well capped 4/29/2003 |
| 700454 | | | CWUA | 13-13-07ddc | | | | | | | Other | no | |
| 520135* | | SC-02 | PC (RWRD) | 13-13-07ddc | 1990-2007 | 34 | | | | 2212.0 | Monitor | no | Monitor or Piezometer well; abandoned 5/22/2007 |
| 906898 | | SC-02R | PC (RWRD) | 13-13-07ddc | 2007-2011 | 77 | 126.9 | | 4/21/2011 | 2212.0 | Monitor | no | Replaced well 55-520135 |
| 700511 | | | Sunset Dairy Co. | 13-13-07ddd | | | | | | | Non-exempt | no | |
| 566753* | | | ADOT | 13-13-06 | | | | | | | Other | no | Geotechnical well - abandoned 7/6/1998 |
| 561948 | | | ADOT | 13-13-06 | | | | | | | Other | no | Exploration well |
| 911839* | | | ADOT | 13-13-06 | | | | | | | Other | no | Geotechnical well - abandoned 3/18/2010 |
| 561949 | | | ADOT | 13-13-06 | | | | | | | Other | no | Exploration well |
| 910815* | | | ADOT | 13-13-06 | | | | | | | Other | no | Geotechnical well - abandoned 6/15/2009 |
| 569739 | | | ADOT | 13-13-06 | | | | | | | Other | no | Geotechnical well |
| | 322013111024601 | UA 663 | Huff, C. H. | 13-13-06aaa | 1952-1981 | 22 | 144.7 | 2099.3 | 12/27/1981 | 2244.0 | Non-exempt | no | visited on 1/22/1995, but not measured |
| 523550 | | | Groundwater Tech Inc | 13-13-06abb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 523551 | | | Groundwater Tech Inc | 13-13-06abb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 523552 | | | Groundwater Tech Inc | 13-13-06abb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 523553 | | | Groundwater Tech Inc | 13-13-06abb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 600584 | 322004111032501 | | The Dog Property LLC | 13-13-06bac | 2005 | 1 | 158.0 | 2059.0 | 1/18/2005 | 2217.0 | Exempt | no | |
| 801404 | 32200411131701 | | G. P. Devlin | 13-13-06bad | 1990-1995 | 2 | 115.5 | 2108.5 | 1/22/1995 | 2224.0 | Non-exempt | yes | |
| | 32201211103401 | | CWUA | 13-13-06bba | 1959 | 1 | 106.2 | 2103.8 | 12/31/1959 | 2210.0 | Other | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 558224 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558225 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558221 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558219 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558218 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558217 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558216 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558220 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558222 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| 558223 | | | Circle K Stores 946 | 13-13-06bbb | | | | | | | Monitor | no | Monitor or Piezometer well |
| | 322012111034101 | | CWUA | 13-13-06bbb | 1939-1942 | 5 | 75.6 | 2129.4 | 3/4/1942 | 2205.0 | Other | no | |
| 634166 | | | Lamb Family Revocable Trust | 13-13-06bdb | | | | | | | Exempt | no | |
| 804889 | 321945111031301 | | K. L. Ritter | 13-13-06bdd | | | | | | 2210.0 | Exempt | no | |
| 524791 | | | COT | 13-13-06c | | | | | | | Other | no | Exploration well |
| 527433 | | | COT | 13-13-06c | | | | | | | Other | no | Exploration well |
| 639734 | 321945111033601 | | Pima County | 13-13-06cba | | | | | | 2205.0 | Exempt | yes | |
| | 321933111031701 | No. 4 | Tanner Co. | 13-13-06cda | 1995 | 1 | 92.0 | 2121.0 | 1/25/1995 | 2213.0 | Non-exempt | no | |
| 900423* | | | APAC Inc | 13-13-06cdc | | | | | | | Monitor | no | abandoned 7/10/2007 |
| 550101 | | | Ashland Oil, Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 550103 | | | Ashland Oil, Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 550104 | | | APAC Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 550099 | | | Ashland Oil, Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 550102 | | | Ashland Oil, Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 530325 | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | |
| 530324* | | MW-1 | APAC Inc | 13-13-06cdc | | | | | | | Monitor | no | abandoned 7/10/2007 |
| 530326 | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | |
| 530321* | | | Tanner Companies | 13-13-06cdc | | | | | | | Other | no | Exploration well - abandoned 4/18/1991 |
| 530322 | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | |
| 550100 | | | Ashland Oil, Inc | 13-13-06cdc | | | | | | | Monitor | no | Monitor or Piezometer well |
| 530323* | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | abandoned 3/8/1991 |
| 536729 | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | |
| 532440* | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | abandoned 3/29/1991 |
| 536728 | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | |
| 530327* | | | Tanner Companies | 13-13-06cdc | | | | | | | Monitor | no | abandoned 3/29/1991 |
| | 321947111024601 | | Bud-Antle Corp. | 13-13-06daa | 1969-1981 | 2 | 124.3 | 2106.7 | 12/27/1981 | 2231.0 | Other | no | visited on 1/22/1995, but not measured |
| 625466 | | | CPC SW Materials | 13-13-06dcc | | | | | | | Non-exempt | yes | |
| 619851 | 321927111024701 | Z-015A | COT | 13-13-06ddd | 1981-2010 | 26 | 143.4 | 2076.0 | 12/15/2010 | 2219.3 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 520185* | | | ADWR | 13-13-06ddd | | | | | | | Other | no | Exploration well - abandoned |
| 800634 | 322007111020201 | | L. Brown | 13-13-05abd | | | | | | 2295.0 | Non-exempt | yes | |
| 604847 | 322012111024101 | | Stewart Title & Trust | 13-13-05bbb | | | | | | 2246.0 | Exempt | no | |
| 626759 | 322001111024201 | Horizon Well | MDWID | 13-13-05bcb | 1995-2005 | 4 | 175.0 | 2058.0 | 2/1/2005 | 2233.0 | Non-exempt | yes | obstruction on 3/2/2010; Recovery Well Permit No. 74-570181 |
| 601883 | 321952111021701 | | Flowing Wells School Dist. | 13-13-05bdd | | | | | | 2280.0 | Non-exempt | yes | |
| 700501 | | | R. A. Wells | 13-13-05cbb | | | | | | | Exempt | no | |
| 700498 | | | Hilmor | 13-13-05cbb | | | | | | | Non-exempt | no | |
| 912989 | | | Circle K Stores, Inc | 13-13-05cbc | | | | | | | Monitor | no | |
| 912978 | | MW-9 | Circle K Stores, Inc | 13-13-05cbc | | | | | | | Monitor | no | dry well |
| 700451 | | | COT | 13-13-05cda | | | | | | | Exempt | no | |
| 804822 | | | C. M. Riggs | 13-12-13aa | | | | | | | Exempt | no | |
| 201019 | | | F. & K. Chrzanowski | 13-12-13aaa | | | | | | | Exempt | no | |
| 481723* | | | F. & K. Chrzanowski | 13-12-13aaa | | | | | | | Exempt | no | abandoned 11/25/2004 |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 636087* | | | Camino de Oeste Water Users | 13-12-13aad | | | | | | | Exempt | no | abandoned 1/14/2003 |
| 579288 | | | M. C. & K. M. Dew | 13-12-13aca | | | | | | | Exempt | no | |
| 640138 | | | R. Scott | 13-12-13ad | | | | | | | Exempt | no | |
| 635653 | | | V. Konen | 13-12-13ada | | | | | | | Exempt | no | |
| 203221 | | | T. & S. Bourgeois | 13-12-13adb | | | | | | | Exempt | no | |
| 800802* | 321805111035201 | | D. L. Jones | 13-12-13adc | | | | | | 2319.0 | Exempt | no | abandoned 11/17/2004 |
| 217721 | | | R. Collins | 13-12-13add | | | | | | | Exempt | no | |
| 596607 | | | Camino de Oeste Water Users | 13-12-13add | | | | | | | Exempt | no | |
| 400133*( | | | H. Yount | 13-12-13bcb | | | | | | | Exempt | no | abandoned 11/14/1999 |
| 803081 | | | E. H. Hlava | 13-12-13d | | | | | | | Exempt | no | |
| 909954 | | | R. Collins | 13-12-13dcd | | | | | | | Monitor | no | |
| 638179 | | | W. Colpitts | 13-12-13dda | | | | | | | Exempt | no | |
| 631860* | | | L. Ybarra | 13-12-13ddc | | | | | | | Exempt | no | abandoned 6/6/2001 |
| 627551 | 321917111035301 | UA 636 | PCRFCD | 13-12-12aab | 1948-2000 | 24 | 85.5 | 2113.0 | 2/23/2000 | 2198.0 | Non-exempt | no | |
| 620296 | 321923111040301 | A-021A | COT | 13-12-12aba | 1962-2010 | 36 | 109.4 | 2073.6 | 12/15/2010 | 2183.0 | Non-exempt | no | |
| 552613 | | | Singing Valley Trust | 13-12-12adb | | | | | | | Exempt | no | |
| 633888 | | | G. N. Kaylor | 13-12-12b | | | | | | | Exempt | no | |
| 634822 | | | T. J. Penick | 13-12-12ba | | | | | | | Exempt | no | |
| | 321917111042201 | | Hansen, W. A. | 13-12-12ba | 1939 | 1 | 71.2 | 2141.8 | 9/13/1939 | 2213.0 | Exempt | no | |
| 803905* | | | S. C. Barden | 13-12-12bab | | | | | | | Exempt | no | abandoned - authority issued 12/4/2003 |
| 200470 | | | W. Richter & M. Reilly | 13-12-12bab | | | | | | | Exempt | no | |
| 620297 | 321853111041701 | A-022A | COT | 13-12-12caa | 1957-2007 | 36 | 178.2 | 2103.8 | 12/19/2001 | 2282.0 | Non-exempt | no | |
| 208799 | | | R. D. Lewis | 13-12-12cab | | | | | | | Exempt | no | capped 10/14/2005 |
| 902452 | | | C. Shumway | 13-12-12cdc | | | | | | | Exempt | no | |
| 208668 | | | D. Phillips | 13-12-12dbb | | | | | | | Exempt | no | |
| 903329 | | | J. Desrochers | 13-12-12dbc | | | | | | | Exempt | no | |
| 902439 | | | J. Symonds | 13-12-12dcb | | | | | | | Exempt | no | |
| 530776 | | | Southwest Gas Corp | 13-12-12dcc | | | | | | | Other | no | Exploration well - capped 3/27/1991 |
| 640440 | | | E. & M. Roberts | 13-12-03 | | | | | | | Exempt | no | |
| 908657 | | | K. Schnebeeli | 13-12-03aab | | | | | | | Exempt | no | |
| 543492 | | | J. Dellacona | 13-12-03aab | | | | | | | Exempt | no | |
| 217647 | | | R. & J. Hayes | 13-12-03abb | | | | | | | Exempt | no | |
| 203959 | | | Sandia Partners LLC | 13-12-03abb | | | | | | | Exempt | no | |
| 482208 | | | R. & J. Hayes | 13-12-03abb | | | | | | | Exempt | no | abandoned 8/28/2008 |
| | 321956111061001 | | Miller, H. W. | 13-12-03ac | 1942 | 1 | 136.5 | 2123.5 | 8/5/1942 | 2260.0 | Exempt | no | |
| 507837 | | | C. Manee | 13-12-03adb | | | | | | | Exempt | no | |
| 568726 | | | D. & R. Shipley | 13-12-03adc | | | | | | | Exempt | no | |
| 635417 | | | J. W. Dunston | 13-12-03bbc | | | | | | | Exempt | no | |
| 207098 | | | R. A. Pierson Jr. | 13-12-03bbd | | | | | | | Exempt | no | |
| 504739 | | | H. S. Shields | 13-12-03bcc | | | | | | | Exempt | no | |
| 633410 | | | H. S. Shields | 13-12-03bcc | | | | | | | Exempt | no | |
| 638122 | | | Wild Horse Ranch | 13-12-03bdd | | | | | | | Exempt | no | |
| 529543 | | | D. Williams & J. Pidala | 13-12-03caa | | | | | | | Exempt | no | |
| 574503 | | | N. Pidala | 13-12-03caa | | | | | | | Exempt | no | |
| 634682 | | | P. Tucker Jr. | 13-12-03cbb | | | | | | | Exempt | no | |
| 564841 | | | B. Brock | 13-12-03cca | | | | | | | Exempt | no | |
| 568857 | | | G. E. Zent | 13-12-03cdb | | | | | | | Exempt | no | |
| 564648 | | | Five Star Development Inc | 13-12-03cdc | | | | | | | Exempt | no | |
| 643273 | | | W. Thomas & S. Elliott | 13-12-03d | | | | | | | Exempt | no | |
| 546961 | | | R. Glover | 13-12-03dac | | | | | | | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 547833 | | | R. Rubinstein | 13-12-03dba | | | | | | | Exempt | no | |
| 542166 | | | K. L. Dunbar | 13-12-03dbc | | | | | | | Exempt | no | |
| 551443 | | | C. Nunn | 13-12-03dca | | | | | | | Exempt | no | |
| 564204 | | | D. & S. Kindle | 13-12-03dcb | | | | | | | Exempt | no | |
| 569489* | | | M. M. Nedza | 13-12-03dcc | | | | | | | Exempt | no | not drilled |
| 508326 | | | C. Mitchell | 13-12-03dcc | | | | | | | Exempt | no | |
| 576567 | | | M. M. Nedza | 13-12-03dcc | | | | | | | Exempt | no | |
| 557333 | | | R. Atteberry | 13-12-03dcd | | | | | | | Exempt | no | |
| 639503 | | | P. J. Cochise | 13-12-03dd | | | | | | | Exempt | no | |
| 503416 | | | I. Mulholland | 13-12-03dd | | | | | | | Exempt | no | |
| 551674 | | | J. Zimmerman | 13-12-03ddb | | | | | | | Exempt | no | |
| 548399 | | | K. Botkin Jr. | 13-12-03ddb | | | | | | | Exempt | no | |
| 546484 | | | R. Spross | 13-12-03ddb | | | | | | | Exempt | no | |
| 569547 | | | D. Webley | 13-12-03ddc | | | | | | | Exempt | no | |
| 556009 | | | J. Engle | 13-12-03ddc | | | | | | | Exempt | no | |
| 502916 | 321927111055101 | | J. Mercker | 13-12-03ddd | 1995-2005 | 3 | 220.7 | 2114.3 | 1/19/2005 | 2335.0 | Exempt | no | |
| 804001 | | | L. E. Graves | 13-12-02 | | | | | | | Exempt | no | |
| 554071 | | | COT (TW) | 13-12-02aaa | | | | | | | Non-exempt | no | Withdrawal permit |
| 619283 | 322012111044901 | UA 619 | Ina & Silverbell Ltd. Partnership | 13-12-02aab | 1953-2000 | 18 | 85.2 | 2080.8 | 2/23/2000 | 2166.0 | Non-exempt | no | |
| | 321956111051001 | | Novrse | 13-12-02ac | 1939 | 1 | 66.0 | 2129.0 | 9/13/1939 | 2195.0 | Exempt | no | |
| 525623 | | | Southwest Gas Corp | 13-12-02baa | | | | | | | Other | no | Exploration well |
| 634972* | | | Silverbell Crossroads LLC | 13-12-02baa | | | | | | | Exempt | no | abandoned 9/10/2010 |
| 619847 | 322012111052801 | Z-011A | COT | 13-12-02bba | 1970-2010 | 6 | 139.4 | 2070.6 | 12/15/2010 | 2210.0 | Non-exempt | no | |
| 619847 | 322015111053701 | Z-011A | COT | 13-12-02bba | 1981-2010 | 26 | 139.4 | 2070.6 | 12/15/2010 | 2200.0 | Non-exempt | no | DTW measurements corrected by 10 feet bls |
| 532117 | | | P. Conway | 13-12-02cdc | | | | | | | Exempt | no | |
| 543775 | 321924111051901 | | C. Steinle | 13-12-02cdd | 2000 | 1 | 192.5 | 2077.5 | 2/23/2000 | 2270.0 | Exempt | no | obstruction observed on 1/25/1995 |
| 520796 | | | G. & N. Dykman | 13-12-02cdd | | | | | | | Exempt | no | |
| 800986 | | | V. Trouthan III | 13-12-02d | | | | | | | Exempt | no | |
| 625446* | 321948111044601 | UA 616 | Logan Hills Water LLC | 13-12-02daa | 1960-1971 | 10 | 75.1 | 2110.0 | 2/10/1971 | 2185.0 | Exempt | yes | abandoned 4/7/2000 |
| 633759 | | | R. H. Marshall | 13-12-02daa | | | | | | | Exempt | no | |
| | 321946111045701 | UA 622 | Adams, A. D. | 13-12-02dab | 1947-1969 | 22 | 119.1 | 2108.9 | 1/28/1969 | 2228.0 | Other | no | |
| 636412 | | | J. L. Bentley Jr. | 13-12-02dd | | | | | | | Exempt | no | |
| 625445* | 321928111045601 | UA 623 | Logan Hills Water LLC | 13-12-02ddc | 1950-1971 | 21 | 130.2 | 2109.9 | 2/10/1971 | 2240.0 | Non-exempt | yes | abandoned 4/6/2000 |
| 636756 | | | H. Williams Jr. | 13-12-01 | | | | | | | Exempt | no | |
| 911837 | | | ADOT | 13-12-01 | | | | | | | Other | no | Geotechnical well |
| 804950 | 322009111040801 | | Texaco Inc. | 13-12-01aba | 1972 | 1 | 83.0 | 2108.0 | 2/14/1972 | 2191.0 | Exempt | no | |
| 639725 | 321957111040801 | ASLD 35-43923 | PCRWRD | 13-12-01aca | | | | | | 2193.0 | Non-exempt | yes | |
| 503350 | | | Pima County | 13-12-01baa | | | | | | | Exempt | no | Observation well |
| | | INA-1D | PC (DEQ/SW) | 13-12-01baa | 2002-2011 | 17 | 116.0 | 2070.3 | 1/13/2011 | 2186.3 | Monitor | no | |
| 503351 | | | Pima County | 13-12-01bab | | | | | | | Exempt | no | Observation well |
| 400047* | | | ADOT | 13-12-01bab | | | | | | | Exempt | no | abandoned 2/7/1999 |
| | 322012111043501 | NW Test 7 | | 13-12-01bba | 1974 | 1 | 180.0 | 1992.0 | 4/5/1974 | 2172.0 | Other | no | |
| 639732* | 322013111043201 | | PC (RWRD) | 13-12-01bba | | | | | | 2178.0 | Exempt | no | well destroyed |
| 627554 | | | Tucson Sand & Soil | 13-12-01bba | | | | | | | Exempt | no | |
| 508567 | | | PC (RWRD) | 13-12-01bba | | | | | | | Other | no | Exploration well |
| 508575 | | | PC (RWRD) | 13-12-01bba | | | | | | | Other | no | Exploration well |
| 511638 | | | Tucson Sand & Soil | 13-12-01bba | | | | | | | Non-exempt | no | Non-Service well |
| 639733 | | INA-OFF | PC (DEQ/SW) | 13-12-01bbb | 2003-2011 | 4 | 110.2 | 2068.6 | 3/7/2011 | 2178.8 | Exempt | yes | |
| 596030 | | | Town of Marana | 13-12-01bbb | | | | | | | Other | no | Geotechnical well |
| 639733 | | | PC (RWRD) | 13-12-01bbb | | | | | | | Exempt | yes | |
| 900999 | | INA-8 | PC (DEQ/SW) | 13-12-01bbd | 2004-2011 | 15 | 107.3 | 2070.7 | 1/13/2011 | 2178.0 | Monitor | no | |
| 508582 | | | PC (RWRD) | 13-12-01bbd | | | | | | | Other | no | Exploration well |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 604856 | 321955111041601 | CMID IF | CMID | 13-12-01bda | 1987-2011 | 16 | 130.0 | 2052.0 | 3/1/2011 | 2182.0 | Non-exempt | yes | measured in Feb or Mar |
| 503353 | | | Pima County | 13-12-01bda | | | | | | | Monitor | no | Monitor or Piezometer well |
| 508577 | | | PC (RWRD) | 13-12-01bdb | | | | | | | Other | no | Exploration well |
| 904070 | | | PC (RWRD) | 13-12-01bdd | | | | | | | Monitor | no | Piezometer |
| 508570 | | | PC (RWRD) | 13-12-01bdd | | | | | | | Other | no | Exploration well |
| 904069 | | | PC (RWRD) | 13-12-01bdd | | | | | | | Monitor | no | Piezometer |
| 503352 | | | Pima County | 13-12-01cad | | | | | | | Exempt | no | Observation well |
| 209946 | | | G. Kaylor | 13-12-01cdd | | | | | | | Exempt | no | capped 1/25/2006 |
| 508581 | | | PC (RWRD) | 13-12-01dab | | | | | | | Other | no | Exploration well |
| 508568 | | | PC (RWRD) | 13-12-01dab | | | | | | | Other | no | Exploration well |
| 503353 | | INA-7 | PC (DEQ/SW) | 13-12-01dac | 1999-2011 | 21 | 109.3 | 2080.1 | 1/7/2011 | 2189.4 | Monitor | no | |
| 535955 | | | Pima County | 13-12-01dad | | | | | | | Monitor | no | Monitor or Piezometer well |
| 508573 | | | PC (RWRD) | 13-12-01dba | | | | | | | Other | no | Exploration well |
| 200032 | | | COT | 12-13-31aab | | | | | | | Non-exempt | yes | capped 3/18/2005 |
| 619853 | 322103111031801 | Z-017A | COT | 12-13-31baa | 1982-2010 | 23 | 228.3 | 2052.7 | 12/13/2010 | 2281.0 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 207135 | | | D. F. Mendoza Jr. | 12-13-31cba | | | | | | | Exempt | no | capped 8/4/2005 |
| | 322038111034301 | | Parker, J. S. | 12-13-31cbb | 1958 | 1 | 118.0 | 2082.0 | 8/6/1958 | 2200.0 | Other | no | |
| 638142 | | | J. F. Huebner | 12-13-31cbd | | | | | | | Exempt | no | |
| | 322024111032101 | | Gauke | 12-13-31cda | 1939-1946 | 35 | 107.4 | 2118.6 | 8/28/1946 | 2226.0 | Other | no | |
| 570914 | | | Conoco Phillips Co. | 12-13-31ccc | | | | | | | Other | no | Geotechnical well |
| 619849 | 322025111033101 | Z-013A | COT | 12-13-31cdd | 1981-2010 | 26 | 148.8 | 2061.2 | 12/13/2010 | 2210.0 | Non-exempt | yes | Recovery Well Permit Nos. 74-551429 & 74-560621 |
| 639870 | | | E. M. Rubin | 12-13-31d | | | | | | | Exempt | no | |
| 619850 | 322022111030201 | Z-014A | COT | 12-13-31dcd | 1981-2010 | 20 | 182.7 | 2057.4 | 12/13/2010 | 2240.0 | Non-exempt | no | |
| 505578 | 322018111030201 | Z-014B | COT | 12-13-31dcd | 1989-2010 | 18 | 179.6 | 2060.4 | 12/13/2010 | 2240.0 | Non-exempt | yes | replaced 55-619850; Recovery Well Permit No. 74-560621 |
| 400276* | | | PC (RFCD) | 12-13-31dda | | | | | | | Exempt | no | abandoned 3/7/2001 |
| | 322018111025001 | | | 12-13-31ddd | 1940 | 2 | 150.0 | 2100.0 | 4/2/1940 | 2250.0 | Other | no | |
| 522302 | | | Gallas-Kenton Properties LLC | 12-12-36 | | | | | | | Other | no | Exploration well |
| 640139 | | | L. Pullman | 12-12-36 | | | | | | | Exempt | no | |
| 555786 | | | Waste Mgmt Tucson | 12-12-36 | | | | | | | Other | no | Exploration well |
| 911836 | | | ADOT | 12-12-36 | | | | | | | Other | no | Geotechnical well |
| 639089 | | | R. L. Boykin | 12-12-36aa | | | | | | | Exempt | no | |
| 585585 | | | Merodias & Montenegro | 12-12-36aac | | | | | | | Exempt | no | |
| 200391 | | | T. & S. Pappas | 12-12-36aad | | | | | | | Exempt | no | |
| 628273 | | | Carolanne Dr. HOA | 12-12-36ab | | | | | | | Non-exempt | yes | |
| 622986 | | | J. F. Islas | 12-12-36ab | | | | | | | Non-exempt | yes | |
| 602259 | | | W. L. Milligan | 12-12-36ab | | | | | | | Exempt | no | |
| 628541 | | | T. Doughty | 12-12-36ab | | | | | | | Exempt | no | |
| | 322104111041301 | | Kermit, H. | 12-12-36abb | 1969 | 1 | 115.0 | 2064.0 | 12/31/1969 | | Exempt | no | |
| 800581 | 322101111040201 | ASLD 35-64572 | M. or R. Wolters | 12-12-36aba | | | | | | 2195.0 | Exempt | no | |
| 521198 | | | O. Rowland | 12-12-36abc | | | | | | | Exempt | no | |
| 507310 | | | N. C. Miller | 12-12-36abd | | | | | | | Exempt | no | |
| 635955 | | | J. R. Liddiard | 12-12-36ac | | | | | | | Exempt | no | |
| 219993 | | | J. Bolton | 12-12-36acb | | | | | | | Exempt | no | |
| 528448* | | | La Farge Building Materials Inc | 12-12-36acc | | | | | | | Monitor | no | abandoned 11/8/2006 |
| 548492* | | | La Farge Building Materials Inc | 12-12-36acc | | | | | | | Monitor | no | abandoned 1/22/2007 |
| 548491* | | | La Farge Building Materials Inc | 12-12-36acc | | | | | | | Monitor | no | abandoned 1/21/2007 |
| 800534 | | | D. Briggs | 12-12-36acc | | | | | | | Non-exempt | yes | |
| 612399 | 322050111034701 | ASLD 35-64475 | C. Molina | 12-12-36ada | | | | | | 2200.0 | Non-exempt | yes | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 628744 | | | N. Grab | 12-12-36ada | | | | | | | Exempt | no | |
| 575250 | | | D. L. Smith | 12-12-36adb | | | | | | | Exempt | no | |
| | 322051111035601 | | Doering, R. | 12-12-36adb | 1970 | 1 | 120.0 | 2070.0 | 12/9/1970 | 2190.0 | Exempt | no | |
| 604842 | 322042111034501 | 36H | CMID | 12-12-36add | 1982-2005 | 5 | 143.3 | 2056.7 | 1/12/2005 | 2200.0 | Non-exempt | yes | |
| 638994 | | | R. E. Gauthier | 12-12-36b | | | | | | | Exempt | no | |
| 612398 | | | R. F. Islas | 12-12-36baa | | | | | | | Non-exempt | yes | |
| | 322106111041601 | | ? | 12-12-36baa | 1987-2005 | 4 | 136.6 | 2041.4 | 1/17/2005 | 2178.0 | Exempt | no | |
| | 322106111041601 | | | 12-12-36baa | 1987-2005 | 4 | 136.6 | 2041.4 | 1/17/2005 | 2178.0 | Exempt | no | |
| 604843 | 322107111042701 | 36C | CMID | 12-12-36bab | 1982-2011 | 13 | 132.0 | 2040.0 | 3/1/2011 | 2172.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 801150 | 322059111042801 | | E. Twarog et. al. | 12-12-36bac | | | | | | 2173.0 | Non-exempt | yes | |
| 623359 | | | L. L. Jones | 12-12-36bac | | | | | | | Non-exempt | no | |
| 568462 | | | J. F. Islas | 12-12-36bad | | | | | | | Exempt | no | |
| 630568 | | | G. D. Green | 12-12-36bba | | | | | | | Exempt | no | |
| 501102 | | | E. E. Twarog | 12-12-36bbb | | | | | | | Exempt | no | |
| 528446* | | MW-1 | La Farge Building Materials Inc | 12-12-36bbc | | | | | | | Monitor | no | abandoned 11/6/2006 |
| 633290 | | | E. R. Gardner | 12-12-36bbd | | | | | | | Exempt | no | |
| | 322049111043701 | | Glenn, J. | 12-12-36bca | 1970 | 1 | 90.0 | 2081.0 | 9/23/1970 | 2171.0 | Exempt | no | |
| 619296 | 322052111044501 | | Amcor Investment Corp. | 12-12-36bcb | 1987-1995 | 2 | 81.5 | 2083.5 | 1/19/1995 | 2165.0 | Exempt | no | |
| 807477* | | | Catalina Coatings | 12-12-36bcb | | | | | | | Exempt | no | abandoned 5/2/1997 |
| 619295 | | | Amcor Investment Corp. | 12-12-36bcb | | | | | | | Exempt | no | |
| 548493* | | MW-9 | La Farge Building Materials Inc | 12-12-36bcc | | | | | | | Monitor | no | abandoned 1/22/2007 |
| 631247 | | | O. L. Hansen | 12-12-36c | | | | | | | Exempt | no | |
| 571070* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/6/2006 |
| 571069* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/6/2006 |
| 902343* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Other | no | Geotechnical well - abanonded 7/5/2005 |
| 528447* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/8/2006 |
| 902341* | | | | 12-12-36cbb | | | | | | | Monitor | no | abandoned 1/21/2007 |
| 576085* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/7/2006 |
| 620941 | | | Gallas-Kenton Properties LLC | 12-12-36cbb | | | | | | | Exempt | no | |
| 571071* | | VSW-1 | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/5/2006 |
| 576082* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/7/2006 |
| 576084* | | SVW-1 | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/6/2006 |
| 576083* | | | La Farge Building Materials Inc | 12-12-36cbb | | | | | | | Monitor | no | abandoned 11/7/2006 |
| 542827* | | MW-4 | La Farge Building Materials Inc | 12-12-36cca | | | | | | | Monitor | no | abandoned 11/5/2006 |
| 542829 | | | BCW Inc. | 12-12-36cca | | | | | | | Other | no | Exploration well |
| 542828* | | | 6886 Properties Inc. | 12-12-36cca | | | | | | | Monitor | no | abandoned 1/26/2007 |
| 542826* | | MW-6 | La Farge Building Materials Inc | 12-12-36cca | | | | | | | Monitor | no | abandoned 1/26/2007 |
| 548495 | | | BCW Inc. | 12-12-36cca | | | | | | | Other | no | Exploration well |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 620940* | 322031111044201 | ASLD 35-28291 | Shetland Properties Co. | 12-12-36cbc | 1971 | 1 | 118.0 | 2052.0 | 6/24/1971 | 2170.0 | Non-exempt | yes | replaced by 55-581120 |
| 638557 | | | W. O. Herman | 12-12-36cd | | | | | | | Exempt | no | |
| 601245 | | | Town of Marana | 12-12-36cda | | | | | | | Exempt | no | |
| 604841 | 322017111043001 | 36N | CMID | 12-12-36cdc | 1982-2005 | 5 | 120.5 | 2057.5 | 1/19/2005 | 2178.0 | Non-exempt | no | out of service |
| 570851 | | | Conoco Phillips Co. | 12-12-36cdd | | | | | | | Other | no | Geotechnical well |
| 629479 | | | D. Cottonwood | 12-12-36d | | | | | | | Exempt | no | |
| 640753 | | | R. Federico | 12-12-36d | | | | | | | Exempt | no | |
| 638497 | 322032111034801 | ASLD 35-84321 | E. H. Davis | 12-12-36da | | | | | | 2200.0 | Exempt | no | |
| 634858 | 322034111035001 | | N. J. Blazzard | 12-12-36da | | | | | | 2198.0 | Exempt | no | |
| 601646 | | | M. A. Davis | 12-12-36da | | | | | | | Exempt | no | |
| 636681 | | | J. E. Engelmann | 12-12-36da | | | | | | | Exempt | no | |
| | 322039111034701 | | Pickering, S. J. | 12-12-36daa | 1969 | 1 | 125.0 | 2073.0 | 9/1/1969 | 2198.0 | Exempt | no | |
| 638938 | 322038111035801 | | R. & V. Diaz | 12-12-36daa | | | | | | 2193.0 | Exempt | no | |
| 808970 | | | S. Canellis | 12-12-36daa | | | | | | | Exempt | no | |
| 801005 | 322038111040101 | | M. J. O'Brien | 12-12-36dab | | | | | | 2191.0 | Non-exempt | yes | |
| 521700 | | | V. Reyes | 12-12-36dab | | | | | | | Exempt | no | |
| 635011 | 322018111040501 | | Exxon Co. | 12-12-36dc | | | | | | 2191.0 | Exempt | no | |
| 512548 | | | SMK Investments Inc. | 12-12-36dca | | | | | | | Exempt | no | |
| 85600 | | | M. Z. Uphaus | 12-12-36dd | | | | | | | Exempt | no | |
| 627578 | | | R. Thompson | 12-12-36ddb | | | | | | | Non-exempt | yes | |
| 511265 | | | Pima County | 12-12-35 | | | | | | | Non-exempt | yes | Non-service, drainage well |
| | 322104111051301 | NW Test 9 | COT | 12-12-35abb | 1974 | 1 | 150.0 | 2002.0 | 4/25/1974 | 2152.0 | Other | no | |
| 604818 | 32204511144701 | 35H | CMID | 12-12-35add | 1987-2011 | 11 | 125.0 | 2043.0 | 3/30/2011 | 2168.0 | Non-exempt | yes | |
| 589021* | 322054111054001 | Y-005A | COT | 12-12-35bbc | 2003-2006 | 4 | 114.0 | 2035.0 | 12/5/2006 | 2149.0 | Non-exempt | no | abandoned 5/27/2009 |
| | 322057111053601 | 35-D-1 (CMID) | Cortaro Farms | 12-12-35bbd | 1940 | 1 | 60.0 | 2090.0 | 12/31/1940 | 2150.0 | Other | no | |
| 591525 | | | Cemex Construction Materials LP | 12-12-35dab | | | | | | | Other | no | |
| 620939 | | | Shetland Properties Co. | 12-12-35ddc | | | | | | | Non-exempt | no | |
| 520234 | | SC-03 | PC (RWRD) | 12-12-35ddd | 1996-2011 | 263 | 107.0 | 2059.2 | 5/4/2011 | 2166.3 | Other | no | Exploration well |
| 613599 | 322104111061401 | UA 471 | Town of Marana | 12-12-34baa | 1967-1995 | 10 | 84.8 | 2055.2 | 1/18/1995 | 2140.0 | Non-exempt | yes | |
| 647604 | | | J. E. Duncan | 12-12-34bbb | | | | | | | Exempt | no | |
| 638881 | 322034111061901 | | N. M. Meech | 12-12-34ca | | | | | | 2196.0 | Exempt | no | |
| 601229 | | | W. S. Nichols | 12-12-34ca | | | | | | | Exempt | no | |
| 565841 | | | C. & P. Cardinal | 12-12-34cbc | | | | | | | Exempt | no | no water, no casing |
| 550313* | | | J. Murillo | 12-12-34cbc | | | | | | | Exempt | no | abandoned - NOI 5/6/2004 |
| 569606 | | | C. & P. L. Cardinal Trust | 12-12-34cbc | | | | | | | Exempt | no | |
| 569340 | | | | 12-12-34cbc | | | | | | | Exempt | no | |
| 572459 | | | C. & P. Cardinal | 12-12-34cbc | | | | | | | Exempt | no | |
| 558199 | | | D. Briggs | 12-12-34cbc | | | | | | | Exempt | no | |
| 635194 | 322026111062801 | | W. N. Mogge | 12-12-34cdb | | | | | | 2221.0 | Exempt | no | |
| 636705 | | | L. Hirsch | 12-12-34daa | | | | | | | Exempt | no | |
| 640005 | | | R. R. Finnicum | 12-12-34dac | | | | | | | Exempt | no | |
| 626388 | | | M. L. Mikesell | 12-12-34dad | | | | | | | Exempt | no | |
| 625749 | | | J. T. Everett | 12-12-34db | | | | | | | Exempt | no | |
| 803918 | | | Amcor Investment Corp. | 12-12-34db | | | | | | | Exempt | no | |
| 640056 | | | C.D. Barrett | 12-12-34dbc | | | | | | | Exempt | no | |
| | 322032111061701 | | Ford, H. | 12-12-34dbc | 1981-2005 | 4 | 114.6 | 2087.4 | 2/3/2005 | | Exempt | no | |
| 553302 | | | M .L. Mikesell | 12-12-34dbd | | | | | | | Exempt | no | |
| 639518 | | | E. E. Hanson | 12-12-34dc | | | | | | | Exempt | no | |
| 804741 | | | B. & A. Warren | 12-12-34dc | | | | | | | Exempt | no | |
| 804846 | | | P. Frederick | 12-12-34dd | | | | | | | Exempt | no | |
| 804932 | | | L. Shamis | 12-12-34ddc | | | | | | | Exempt | no | |
| 533003 | | | J. W. Brainard | 12-12-34ddc | | | | | | | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 636400 | | | P. H. Douglas | 12-12-34ddd | | | | | | | Exempt | no | |
| | 322102111065501 | | Wilson, G. | 12-12-33aaa | 1939-1967 | 93 | 137.1 | 2038.0 | 3/20/1967 | 2175.0 | Other | no | |
| 212510 | | | Town of Marana Municipal Water System | 12-12-33aaa | | | | | | | Non-exempt | no | |
| 541587 | | | G. C. Hannon | 12-12-33aad | | | | | | | Exempt | no | |
| 519186 | | | A. N. Kenwick | 12-12-33aca | | | | | | | Exempt | no | |
| 207152 | | | L. Kenwick | 12-12-33aca | | | | | | | Exempt | no | |
| 907408 | | | C. Kenwick | 12-12-33aca | | | | | | | Exempt | no | |
| 558887 | | | L. Kenwick | 12-12-33aca | | | | | | | Exempt | no | |
| 803915 | | | G. C. Hannon | 12-12-33ad | | | | | | | Exempt | no | |
| 804648 | | | H. K. White | 12-12-33ad | | | | | | | Exempt | no | |
| 603113 | | | A. D. Kenwick, Dr. | 12-12-33ada | | | | | | | Exempt | no | |
| 511997 | | | R. S. Webster | 12-12-33adb | | | | | | | Exempt | no | |
| 802621* | | | R. S. Webster | 12-12-33adb | | | | | | | Exempt | no | abandoned 6/18/2009 |
| 513132 | | | H. Sadacca | 12-12-33add | | | | | | | Exempt | no | |
| 512497 | | | R. S. Webster | 12-12-33add | | | | | | | Exempt | no | |
| 635735 | | | K. & J. Joyiens | 12-12-33bc | | | | | | | Exempt | no | |
| 599892 | | | B. & A. Warren | 12-12-33bca | | | | | | | Exempt | no | |
| 804743* | | | B. Warren | 12-12-33bca | | | | | | | Exempt | no | abandoned - authority issued 8/25/2003 |
| 804452 | | | A. Moskowitz | 12-12-33bd | | | | | | | Exempt | no | |
| 639455 | | | A. Moskowitz | 12-12-33bd | | | | | | | Exempt | no | |
| 565118 | | | GLN LLC | 12-12-33bdb | | | | | | | Exempt | no | |
| 553749 | | | The Loiuse Urroz Living Trust | 12-12-33bdb | | | | | | | Exempt | no | |
| 216743 | | | G. E. Cunningham | 12-12-33bdc | | | | | | | Exempt | no | |
| 524468 | | | G. E. Cunningham | 12-12-33bdc | | | | | | | Exempt | no | |
| 540749 | | | T. C. Brown & A. E. Spies | 12-12-33bdd | | | | | | | Exempt | no | |
| 526214 | | | T. J. Wilson | 12-12-33caa | | | | | | | Exempt | no | |
| 800117* | | | J. & B. Manfredonia | 12-12-33cb | | | | | | | Exempt | no | replaced by 55-530925 |
| 504437 | | | B. Jenkins | 12-12-33cba | | | | | | | Exempt | no | Exploration well |
| 530925* | | | J. F. Manfredonia | 12-12-33cbc | | | | | | | Exempt | no | abandoned 1992 |
| 600544 | | | L. & F. Serra | 12-12-33cc | | | | | | | Exempt | no | |
| 636645 | | | N. Newton | 12-12-33d | | | | | | | Exempt | no | |
| 537961 | | | S. J. Grubisha et. al. | 12-12-33dab | | | | | | | Exempt | no | shared well, Burk/Barraza |
| 800313 | 322107111065301 | | W. Gang | 12-12-33dad | 1985-2007 | 26 | 257.0 | 1981.0 | 1/18/2007 | 2238.0 | Exempt | no | |
| 561517 | | | L. Drake | 12-12-33dbb | | | | | | | Exempt | no | |
| 901087 | | | A. & B. Pinter | 12-12-33dbb | | | | | | | Exempt | no | |
| 563789 | | | D. Nalcashian | 12-12-33dbb | | | | | | | Exempt | no | |
| 900601 | | | N. Newton | 12-12-33dca | | | | | | | Exempt | no | |
| 570423 | | | K. Burk | 12-12-33dca | | | | | | | Exempt | no | |
| 530785 | | | G. W. Clover | 12-12-33dca | | | | | | | Exempt | no | |
| 570424 | | | K. Burk | 12-12-33dca | | | | | | | Exempt | no | |
| 534018 | | | R. Ahrendt | 12-12-33dcc | | | | | | | Exempt | no | |
| 804829 | | | J. Lewis et. al. | 12-12-29b | | | | | | | Exempt | no | |
| 545418 | | | J. & G. Brodie | 12-12-29baa | | | | | | | Exempt | no | |
| 634600 | | | R. J. Stockbridge | 12-12-29bad | | | | | | | Exempt | no | |
| 634012 | | | R. J. Stockbridge | 12-12-29bad | | | | | | | Exempt | no | |
| 634473 | | | Lazy K Bar Ranch Inc | 12-12-29bdd | | | | | | | Exempt | no | |
| 803727 | | | All Creeds Brotherhood | 12-12-29cda | | | | | | | Exempt | no | |
| 576010 | | | All Creeds Brotherhood | 12-12-29cdb | | | | | | | Exempt | no | |
| 514126 | | | All Creeds Brotherhood | 12-12-29cdb | | | | | | | Exempt | no | |
| 640152 | | | M. L. Olm | 12-12-29d | | | | | | | Exempt | no | |

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## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
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| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 572813 | | | A. Lalama | 12-12-29dab | | | | | | | Exempt | no | |
| 586674 | | | Rosson Family Trust | 12-12-29dba | | | | | | | Exempt | no | |
| 210236 | | | W. M. Gordon II | 12-12-29dbb | | | | | | | Exempt | no | capped 12/22/2005 |
| 555822 | | | M. Hall | 12-12-29dbb | | | | | | | Exempt | no | |
| 545444 | | | M. G. Hulsey | 12-12-29dbc | | | | | | | Exempt | no | |
| 545417 | | | J. & J. Obiol | 12-12-29dbc | | | | | | | Exempt | no | |
| | 322122111081601 | | Hargis, L. D. | 12-12-29dbc | 1950 | 1 | 166.0 | 2014.1 | 5/1/1950 | 2180.0 | Exempt | no | |
| 808563 | | | E. B. Miller | 12-12-29dbd | | | | | | | Exempt | no | |
| 534288 | | | Southwest Gas Corp | 12-12-29dbd | | | | | | | Exempt | no | Exploration well |
| 638935 | | | J. F. Mechan | 12-12-29dc | | | | | | | Exempt | no | |
| 629917 | | | W. Hausman & A. Waisman | 12-12-29dd | | | | | | | Exempt | no | |
| 582826 | | | W. Hausman | 12-12-29ddc | | | | | | | Exempt | no | |
| 536788 | | | J. Thomas et. al. | 12-12-29ddd | | | | | | | Exempt | no | |
| 542144 | | | S. J. & E. K. Coffey | 12-12-29ddd | | | | | | | Exempt | no | |
| 563874 | | | J. R. Thomas & M. K. Smith | 12-12-29ddd | | | | | | | Exempt | no | |
| 213492 | | | Town of Marana Municipal Water System | 12-12-28aca | | | | | | | Non-exempt | no | Recovery Well Permit No. 74-211278 |
| 500385 | | | D. S. Hoffman | 12-12-28aca | | | | | | | Exempt | no | |
| 576334 | | | El Paso Natural Gas Co. | 12-12-28cdd | | | | | | | Other | no | Cathodic well |
| 619333* | 322108111065301 | | Fidelity National Title Trust 60085 | 12-12-28ddd | | | | | | 2167.0 | Exempt | no | dry on 12/28/1981 and 1/18/1995; abandoned 1/15/2005 |
| 527934* | | | COT | 12-12-27 | | | | | | | Other | no | Exploration well - abandoned |
| 803827* | | | Pima County | 12-12-27 | | | | | | | Exempt | no | abandoned |
| 589796* | | | Marana Golf LLC | 12-12-27 | | | | | | | Other | no | Geotechnical well |
| 214653 | | | COT (OEM) | 12-12-27aba | | | | | | | Non-exempt | no | capped |
| 505941 | | | CMID | 12-12-27add | | | | | | | Non-exempt | yes | Service well |
| 619288* | | | Richmond American | 12-12-27bcb | | | | | | | Exempt | no | abandoned 9/29/1994 |
| 604852* | 322129111064501 | CWUA 27L | R. A. Homes | 12-12-27cbb | 1981-1984 | 4 | 112.1 | 2023.9 | 1/9/1984 | 2136.0 | Non-exempt | no | abandoned 11/8/1994 |
| 800646* | | | K. R. Perkins | 12-12-27cbb | | | | | | | Exempt | no | abandoned |
| 807346* | 322111111062201 | CWUA 27N | CMID | 12-12-27cdd | 1940 | 1 | 71.5 | 2068.5 | 12/31/1940 | 2140.0 | Exempt | no | abandoned 1996 |
| 574380 | | | San Xavier Rock & Materials | 12-12-27da | | | | | | | Other | yes | Non-exempt sump pum, trench or sand points |
| 520133 | | SC-04 | PC (RWRD) | 12-12-27dac | 2001-2011 | 25 | 129.5 | 2004.2 | 3/10/2011 | 2133.7 | Monitor | no | Monitor or Piezometer well |
| 604853* | 322111111061401 | CWUA 27O | CMID | 12-12-27dcc | 1947 | 1 | 83.0 | 2057.0 | 1/31/1947 | 2140.0 | Non-exempt | yes | abandoned 9/21/1996 |
| 589797 | | | Marana Golf LLC | 12-12-26 | | | | | | | Other | no | Geotechnical well |
| 571457 | | | ADOT | 12-12-26 | | | | | | | Other | no | Geotechnical well |
| 603549 | 322138111051501 | | Town of Marana Municipal Water System | 12-12-26acb | 1970 | 1 | 124.0 | 2034.0 | 9/9/1970 | 2158.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| | 322137111050501 | | Cortaro School | 12-12-26acd | 1939 | 2 | 77.2 | 2083.8 | 9/26/1939 | 2161.0 | Other | no | |
| 603548 | 322138111051501 | | Town of Marana Municipal Water System | 12-12-26ada | 1965 | 1 | 103.0 | 2059.0 | 2/15/1965 | 2162.0 | Non-exempt | yes | |
| 604822 | 322142111053701 | 26E | CMID | 12-12-26bca | 1987-2011 | 12 | 140.0 | 2008.0 | 3/1/2011 | 2148.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 85687 | | | H. H. Connally | 12-12-26bdd | | | | | | | Non-exempt | no | |
| 531353 | | | Southwest Gas Corp | 12-12-26caa | | | | | | | Other | no | Exploration well - capped 5/30/1991 |
| 86157* | | | COT (OEM) | 12-12-26cad | | | | | | | Non-exempt | no | abandoned 4/17/2001 |
| 619289* | 322127111053701 | | First American Title Trust 4741 | 12-12-26cba | 1987-1995 | 2 | 83.2 | 2061.8 | 1/19/1995 | 2145.0 | Exempt | no | abandoned 3/21/2000 |
| 210237 | | | M. & N. Wolters | 12-12-26daa | | | | | | | Exempt | no | |
| | 322131111045901 | CWUA 26J1 | CWUA | 12-12-26dab | 1940-1941 | 4 | 64.5 | 2093.5 | 3/4/1941 | 2158.0 | Non-exempt | no | |
| 604821 | 322129111050501 | CWUA 26J2 | CMID | 12-12-26dba | 1947-2011 | 20 | 138.0 | 2021.0 | 3/1/2011 | 2159.0 | Non-exempt | yes | water level measured in Feb or Mar |

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## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 209703 | | | CMID | 12-12-26dba | | | | | | | Non-exempt | yes | |
| 216677 | | | Kinder Morgan | 12-12-26dbb | | | | | | | Other | no | Cathodic well |
| 568400 | | | R. C. Lindgren | 12-12-26dbb | | | | | | | Exempt | no | |
| 619290 | | | Amcor Investment Corp. | 12-12-26dbc | | | | | | | Exempt | no | |
| 604820 | 322121111050701 | 26J3 | CMID | 12-12-26dbd | 1985-2011 | 10 | 140.0 | 2014.0 | 3/1/2011 | 2154.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 523728 | | | CMID | 12-12-26dbd | | | | | | | Non-exempt | no | |
| 804616 | | | L. & J. Catt | 12-12-25 | | | | | | | Exempt | no | |
| 632967* | | | R. R. Project Inc. | 12-12-25aaa | | | | | | | Exempt | no | abandoned 11/11/1993 |
| 633749 | | | J. R. Carreon | 12-12-25acb | | | | | | | Exempt | no | |
| 630041 | | | A. De La Ossa | 12-12-25acb | | | | | | | Exempt | no | |
| | 322133111035801 | | Davis, A. L. | 12-12-25adc | 1970 | 1 | 211.0 | 2083.0 | 8/8/1970 | 2294.0 | Exempt | no | |
| 640759 | | | L. J. Harshbarger | 12-12-25bb | | | | | | | Exempt | no | |
| 630136 | 322157111043501 | | L. J. Harshbarger | 12-12-25bba | | | | | | 2245.0 | Exempt | no | |
| 204706 | | | N. McHugh | 12-12-25bca | | | | | | | Exempt | no | |
| 209006 | | | N. McHugh | 12-12-25bca | | | | | | | Exempt | no | |
| 597339* | | | N. McHugh | 12-12-25bca | | | | | | | Exempt | no | not drilled per driller 8/3/2004 |
| 482402* | | | Quest | 12-12-25bcb | | | | | | | Exempt | no | abandoned 9/6/2009 |
| 647542 | | | H. L. Henry | 12-12-25bcb | | | | | | | Exempt | no | |
| | 322134111043201 | | Hartmann, C. | 12-12-25bcc | 1966 | 1 | 118.0 | 2052.0 | 9/10/1966 | 2170.0 | Exempt | no | |
| 505552 | | | L. Drake | 12-12-25bda | | | | | | | Exempt | no | |
| 601698 | | | P. W. Neilson | 12-12-25bda | | | | | | | Exempt | no | |
| 650582 | 322137111042701 | | Brown, M. I. | 12-12-25bdc | 1973 | 1 | 168.5 | 2061.5 | 5/18/1973 | 2230.0 | Exempt | no | |
| 640009 | | | J. L. Fuller | 12-12-25bdc | | | | | | | Exempt | no | |
| 636872 | | | W. T. Elliot | 12-12-25bdd | | | | | | | Exempt | no | |
| 482162* | | | Lennar Communities | 12-12-25caa | | | | | | | Exempt | no | abandoned 5/18/2007 |
| 604846 | 322120111043101 | 25K2 | CMID | 12-12-25cac | 1993-2005 | 4 | 138.6 | 2037.4 | 1/19/2005 | 2176.0 | Non-exempt | yes | |
| 604823 | 322120111043001 | 25K1 | CMID | 12-12-25cac | 1995-2005 | 3 | 138.7 | 2036.3 | 1/19/2005 | 2175.0 | Non-exempt | yes | nearby pumping during water level measurement |
| 604819 | 322111111044301 | 25M | CMID | 12-12-25ccc | 1985-2005 | 5 | 130.8 | 2034.2 | 1/19/2005 | 2165.0 | Non-exempt | yes | |
| 601551 | 322628111041501 | | R. R. Gentry | 12-12-25dbb | 1973 | 1 | 170.0 | 2055.0 | 6/1/1973 | 2225.0 | Exempt | no | |
| 638952 | 322111111040801 | ASLD 35-24154 | PCRFCD | 12-12-25dcc | 1973 | 1 | 130.0 | 2070.0 | 6/28/1973 | 2200.0 | Exempt | no | |
| 638928 | | | M. L. Greer | 12-12-25ddc | | | | | | | Exempt | no | |
| 800703 | | | R. Chivers | 12-12-23abc | | | | | | | Exempt | no | |
| 804746 | | | E. M. Gromley | 12-12-23cab | | | | | | | Exempt | no | |
| 638045 | | | H. D. Taylor | 12-12-23cac | | | | | | | Exempt | no | |
| 801197 | 322212111052101 | | H. D. Taylor | 12-12-23cad | | | | | | 2179.0 | Non-exempt | yes | |
| 639071 | | | W. M Robinson et. al. | 12-12-23ccd | | | | | | | Exempt | no | |
| 603309 | | | D. F. Harris | 12-12-23cda | | | | | | | Exempt | no | |
| 801410 | | | PC (NRPR) | 12-12-23cdd | | | | | | | Exempt | no | |
| 84816 | | | Ashby DVM | 12-12-23dac | | | | | | | Exempt | no | |
| 801000 | | | PC (RFCD) | 12-12-23dca | | | | | | | Exempt | no | |
| 527933* | | | COT | 12-12-22 | | | | | | | Other | no | Exploration well - abandoned 5/22/1990 |
| 598524 | | | Rinker Materials | 12-12-22 | | | | | | | Other | no | Mineral exploration well |
| 213045 | | | Rinker Materials | 12-12-22 | | | | | | | Other | yes | Non-exempt sump pum, trench or sand points |
| | 322227111055901 | | CWUA | 12-12-22adc | 1942-2011 | 86 | 153.6 | 1985.4 | 1/13/2011 | 2139.0 | Monitor | no | |
| 801327 | | | Bowman & Smith | 12-12-22b | | | | | | | Exempt | no | |
| 808541 | | | Southwest Mining & Development Inc. | 12-12-22bba | | | | | | | Exempt | no | |
| 604773 | | | Pima County | 12-12-22bbc | | | | | | | Non-exempt | no | |
| 612548* | 322241111064601 | | Town of Marana | 12-12-22bbc | 1969 | 1 | 88.0 | 2015.0 | 4/18/1969 | 2103.0 | Non-exempt | yes | abandoned 1/11/2009 |
| 801002* | 322239111063801 | | Town of Marana | 12-12-22bbd | | | | | | 2111.0 | Exempt | no | abandoned 8/26/2009 |
| 604825 | 322241111063801 | 22D | CMID | 12-12-22bbd | 1948-2008 | 15 | 137.0 | 1973.0 | 9/1/2008 | 2110.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 613783 | 322233111063101 | | JM Investment Trust 2000 | 12-12-22bdc | | | | | | 2115.0 | Non-exempt | yes | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 518192 | | | S. L. Felker, Trustee | 12-12-22bdd | | | | | | | Exempt | no | |
| 86156* | | | COT (OEM) | 12-12-22caa | | | | | | | Non-exempt | no | abandoned 8/26/2002 |
| 520132 | 322212111064201 | SC-05 | PC (RWRD) | 12-12-22ccb | 1996-2011 | 121 | 141.9 | 1971.8 | 5/4/2011 | 2113.7 | Monitor | no | Monitor or Piezometer well |
| 561433 | | | Cemex Construction Materials LP | 12-12-22cda | | | | | | | Non-exempt | yes | |
| 214676 | | | United Metro Materials Inc. | 12-12-22cdd | | | | | | | Non-exempt | yes | Non-service well |
| 618722 | | | AZ Board of Regents | 12-12-22daa | | | | | | | Exempt | no | |
| 604826 | 322212111060101 | 22P | CMID | 12-12-22dac | 1985-2011 | 14 | 141.0 | 1991.0 | 3/1/2011 | 2132.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 594066 | | | Cemex Construction Materials LP | 12-12-22dbb | | | | | | | Non-exempt | yes | Non-service well |
| 619942 | 322200111060401 | Y-001A | COT | 12-12-22dcd | 1955-2011 | 36 | 138.3 | 1991.8 | 2/21/2011 | 2130.0 | Non-exempt | yes | Recovery Well Permit No. 74-560621 |
| 527932* | | | COT | 12-12-21 | | | | | | | Other | no | Exploration well - abandoned |
| | 322252111065701 | | Phillips, G. E. | 12-12-21aaa | 1981-1987 | 2 | 100.5 | 2002.5 | 12/1/1987 | 2103.0 | Exempt | no | |
| 562833 | | | Cortaro-Marana Trust | 12-12-21abc | | | | | | | Non-exempt | yes | |
| 86158 | 322238111065701 | Y-004A | COT | 12-12-21adb | 1989-2011 | 17 | 148.1 | 1962.5 | 2/21/2011 | 2110.6 | Non-exempt | yes | Non-service well |
| 566801 | | | COT (TW) | 12-12-21adb | | | | | | | Non-exempt | no | |
| 604829 | 322251111072101 | CWUA 21C2 | CMID | 12-12-21baa | 1947-1993 | 2 | 197.5 | 1903.0 | 8/3/1993 | 2100.0 | Non-exempt | yes | |
| 803830 | | | Pima County | 12-12-21baa | | | | | | | Exempt | no | |
| 803829 | | | Pima County | 12-12-21baa | | | | | | | Exempt | no | |
| 604830 | 322251111073301 | 21C1 | CMID | 12-12-21bab | 1984-1995 | 5 | 95.5 | 2004.5 | 1/23/1995 | 2100.0 | Non-exempt | yes | |
| | 322242111073901 | | Cortaro Farms | 12-12-21bbd | 1939-1941 | 16 | 81.0 | 2018.0 | 11/12/1941 | 2099.0 | Other | no | |
| 604828 | 322227111072101 | 21F | CMID | 12-12-21bdd | 1982-2011 | 14 | 164.0 | 1943.0 | 3/1/2011 | 2107.0 | Non-exempt | yes | water level measured in Feb or Mar |
| | 322225111072101 | | Cortaro Farms | 12-12-21caa | 1939-1941 | 20 | 73.7 | 2034.3 | 12/26/1941 | 2108.0 | Non-exempt | no | |
| 503291 | 322214111072101 | 21K | CMID | 12-12-21cad | 1984-2011 | 13 | 163.0 | 1948.0 | 3/1/2011 | 2111.0 | Non-exempt | yes | |
| 604827 | 322215111072101 | | CMID | 12-12-21cad | | | | | | 2111.0 | Non-exempt | yes | |
| 634795 | | | C. W. Selger | 12-12-21cda | | | | | | | Exempt | no | |
| * | 322202111071701 | | CWUA | 12-12-21dcc | 1947 | 1 | 90.9 | 2025.1 | 1/31/1947 | 2116.0 | Non-exempt | no | well destroyed |
| 604824 | 322159111070401 | 21O | CMID | 12-12-21dcd | 1985-2011 | 14 | 150.0 | 1968.0 | 3/1/2011 | 2118.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 521658 | 322159111065101 | 21P | CMID | 12-12-21ddd | | | | | | 2120.0 | Non-exempt | yes | Service well |
| | 322203111065301 | NW Test 10 | COT | 12-12-21ddd | 1974 | 1 | 120.0 | 1998.0 | 5/2/1974 | 2118.0 | Monitor | no | |
| 807600* | 322242111075501 | Old Well 20A | CMID | 12-12-20aad | 1984-1987 | 3 | 105.1 | 1993.9 | 12/7/1987 | 2099.0 | Non-exempt | no | abandoned 1/27/1997 |
| 604831* | 322243111075201 | 20A | CMID | 12-12-20aad | 1984-1995 | 6 | 95.0 | 2006.0 | 1/23/1995 | 2101.0 | Non-exempt | yes | abandoned 9/26/1997 |
| 807706 | | | G. & L. Mitchel | 12-12-20caa | | | | | | | Exempt | no | |
| 804598 | | | B. Fyvolent | 12-12-20cd | | | | | | | Exempt | no | |
| 801633 | 322021111082501 | | V. H. Swadley Jr. | 12-12-20cdd | 1971 | 1 | 140.0 | 2010.0 | 12/17/1971 | 2150.0 | Exempt | no | |
| 808533 | | | E. E. & J. M. Severson | 12-12-20dcc | | | | | | | Exempt | no | |
| 640016 | 322248111093401 | | H. E. Erwin | 12-12-19 | | | | | | 2091.0 | Exempt | no | |
| 590932 | | | F. Chernis | 12-12-19aab | | | | | | | Exempt | no | |
| 631256 | 322231111095101 | | W. Pajunkas | 12-12-19b | | | | | | 2110.0 | Exempt | no | |
| 628532 | 322241111093101 | | F. Frey | 12-12-19ba | | | | | | 2099.0 | Non-exempt | yes | |
| 577169 | | | T. J. & C. L. Kachel | 12-12-19bac | | | | | | | Exempt | no | |
| 618396 | 322224111094201 | ASLD 35-31269 | White Stallion Ranch | 12-12-19bcd | | | | | | 2114.0 | Non-exempt | yes | |
| 801396 | | | Twin Peaks HOA | 12-12-19bd | | | | | | | Exempt | yes | |
| 86449 | 322232111093201 | | G. Schwatken | 12-12-19bdb | | | | | | 2105.0 | Exempt | no | |
| 804627 | 322230111093201 | ASLD 35-43640 | B. B. Cole Sr. | 12-12-19bdc | | | | | | 2107.0 | Exempt | no | |
| 618398 | 322223111095501 | | White Stallion Ranch | 12-12-19cbb | | | | | | 2115.0 | Exempt | no | |
| 618397 | 322224111095401 | | White Stallion Ranch | 12-12-19cbb | | | | | | 2115.0 | Non-exempt | yes | |
| | 322217111095001 | | Zimmerman, M. | 12-12-19cbb | 1948-1965 | 3 | 311.2 | 1801.8 | 1/17/1965 | 2113.0 | Exempt | no | |
| 207068 | | | C. M. Dickens | 12-12-18bbb | | | | | | | Non-exempt | no | Withdrawal Permit |
| 206643 | | | Town of Marana Municipal Water System | 12-12-18bbb | | | | | | | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 621850 | 322307111095101 | | Saguaro Reserve LLC | 12-12-18cbc | 1952-2005 | 6 | 255.1 | 1822.9 | 1/26/2005 | 2078.0 | Non-exempt | yes | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 621851* | 32220111095001 | UA 418 | Saguaro Reserve LLC | 12-12-18ccc | 1954-2000 | 17 | 255.0 | 1835.0 | 2/27/2000 | 2090.0 | Non-exempt | no | abandoned 11/20/2006 |
| 565952 | | | T. Ringle | 12-12-17bdc | | | | | | | Exempt | no | |
| 551875 | | | G. Kauffman | 12-12-17bdd | | | | | | | Exempt | no | |
| 586539 | | | R. Nelson | 12-12-17bdd | | | | | | | Exempt | no | |
| 214971 | | | K. R. & K. E. Sratlen | 12-12-17cdd | | | | | | | Exempt | no | |
| 604835 | 322317111075201 | 17I1 | CMID | 12-12-17daa | 1984-2011 | 19 | 150.0 | 1936.0 | 3/1/2011 | | Non-exempt | yes | water level measured in Feb or Mar |
| 85388 | | | CMID | 12-12-17daa | | | | | | | Non-exempt | no | |
| 604851 | 322315111080301 | CWUS 17I2 | CMID | 12-12-17dab | 1947 | 1 | 111.0 | 1975.0 | 7/1/1947 | 2086.0 | Exempt | no | |
| 604840 | 322255111080101 | CWUA 17P2 | Town of Marana | 12-12-17ddc | 1947-2008 | 15 | 157.0 | 1933.0 | 9/1/2008 | 2090.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 604832 | 322252111075201 | 17P1 | CMID | 12-12-17ddd | 1985-2008 | 11 | 167.0 | 1927.0 | 9/1/2008 | 2094.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 604849* | 322339111072501 | CMID 16-C-3 | State of Arizona | 12-12-16baa | 1940 | 1 | 75.5 | 2008.5 | 12/31/1941 | 2084.0 | Exempt | no | well abandoned 12/31/1965 |
| 604848 | 322329111072501 | CWUA 16C1 | CMID | 12-12-16bad | 1941-1977 | 118 | 124.3 | 1962.7 | 12/19/1977 | 2087.0 | Exempt | no | obstruction 12/18/1979 |
| 604837 | 322343111074301 | CWUA 16D2 | CMID | 12-12-16bba | 1947-2005 | 7 | 143.5 | 1936.5 | 1/18/2005 | 2080.0 | Non-exempt | yes | |
| 604854 | 322342111073701 | 16D1 | CMID | 12-12-16bba | 1995-2011 | 10 | 144.0 | 1936.0 | 3/1/2011 | 2080.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 604850* | | | CMID | 12-12-16bd | | | | | | | Exempt | no | abandoned, replaced by 55-521115 |
| | 322331111073201 | 16F2 | CWUA | 12-12-16bdc | 1947 | 1 | 90.8 | 1998.2 | 2/26/1947 | 2089.0 | Non-exempt | no | |
| 604836 | 322318111072801 | 16F1 | CMID | 12-12-16bdd | 1998-2011 | 9 | 147.0 | 1944.0 | 3/1/2011 | 2091.0 | Non-exempt | yes | wter level measured in Feb or Mar |
| 503931 | | | CMID | 12-12-16bdd | | | | | | | Non-exempt | yes | |
| 521115 | | | CMID | 12-12-16cab | | | | | | | Non-exempt | yes | |
| 604833 | 322305111075001 | 16L | CMID | 12-12-16cbc | 1947-1998 | 6 | 131.5 | 1959.0 | 6/10/1998 | 2090.0 | Non-exempt | yes | well pumping |
| 520131 | | SC-06 | PC (RWRD) | 12-12-16dac | 2001-2010 | 28 | 134.3 | 1961.0 | 12/2/2010 | 2095.3 | Monitor | no | Monitor or Piezometer well |
| 604834 | 322252111065001 | 16P | CMID | 12-12-16ddd | 1947-2011 | 10 | 164.0 | 1938.0 | 3/1/2011 | 2102.0 | Non-exempt | yes | water level measured in Feb or Mar |
| 212524 | | | Town of Marana Water Dept. | 12-12-15bcc | | | | | | | Non-exempt | no | Service well - application withrawn 8/18/2006 |
| 213855 | | | Town of Marana Water Dept. | 12-12-15bcc | | | | | | | Non-exempt | no | Withdrawal Permit |
| 639765 | | | J. & L. Gaylon | 12-12-15cc | | | | | | | Exempt | no | |
| 639764 | | | Long Family Ptnr | 12-12-15cc | | | | | | | Exempt | no | |
| 594939 | | | S. Jarrell | 12-12-15ccb | | | | | | | Exempt | no | |
| 804503* | | | Town of Marana | 12-12-15ccb | | | | | | | Exempt | no | abandoned 1/11/2009 |
| 87472* | | | Town of Marana | 12-12-15ccc | | | | | | | Exempt | no | abandoned 1/11/2009 |
| | 322255111062101 | | | 12-12-15cdd | 1981-2010 | 6 | 155.8 | 1974.2 | 3/2/2010 | 2130.0 | Other | no | |
| 801037 | | | Fidelity National Title | 12-12-15dab | | | | | | | Exempt | no | |
| 806367 | | | L. C. Leung Inc. | 12-12-15dcc | | | | | | | Exempt | no | |
| | 322420111073201 | | Lee | 12-12-09bdb | 1939 | 1 | 113.0 | 1980.0 | 9/14/1939 | 2093.0 | Exempt | no | |
| 611365 | 322358111073001 | | TEP | 12-12-09cac | 1971 | 1 | 110.0 | 1975.0 | 11/1/1971 | 2085.0 | Non-exempt | yes | |
| 611365 | 322356111073201 | | TEP | 12-12-09cac | | | | | | 2085.0 | Non-exempt | yes | |
| 621245 | | | W. M. Choate | 12-12-09cba | | | | | | | Exempt | no | |
| 606088 | 322354111074801 | | Asarco Inc. | 12-12-09ccb | 1995-2005 | 3 | 143.9 | 1933.1 | 1/19/2005 | 2077.0 | Exempt | no | |
| 638319 | | | H. Kai | 12-12-09dbb | | | | | | | Exempt | no | |
| 534317 | | | Southwest Gas Corp | 12-12-09ddb | | | | | | | Other | no | Exploration/Cathodic well |
| 618393 | | | J. & H Kai | 12-12-08aba | | | | | | | Non-exempt | no | |
| 610527 | 322423111082201 | Well No. 5 | CA Portland Cement | 12-12-08abc | | | | | | 2069.0 | Non-exempt | yes | |
| 516624 | | | Calmat Co. | 12-12-08abc | | | | | | | Non-exempt | no | see 55-610527 |
| 523727 | | | Calmat Co. | 12-12-08abc | | | | | | | Non-exempt | no | |
| 618394 | 322425111080801 | | H. Kai | 12-12-08abd | | | | | | 2070.0 | Exempt | no | |
| 504198 | 322426111080801 | Grande | Lawyers Title of AZ | 12-12-08abd | 1990-2005 | 3 | 151.4 | 1916.6 | 1/18/2005 | 2068.0 | Non-exempt | yes | |
| 623947 | | | G. L. Gibbons | 12-12-08ac | | | | | | | Exempt | no | |
| 610526 | 322406111081801 | Well No. 4 | CA Portland Cement | 12-12-08acc | 1960-1970 | 12 | 115.1 | 1952.9 | 1/28/1970 | 2068.0 | Non-exempt | yes | |
| 516625 | | | Calmat Co. | 12-12-08acc | | | | | | | Non-exempt | no | see 55-610526 |
| 523726 | | | Calmat Co. | 12-12-08acc | | | | | | | Non-exempt | no | |
| 610525 | 322432111085001 | Well No. 1 | AZ Portland Cement | 12-12-08bbb | 1947-1979 | 37 | 213.2 | 1841.8 | 1/31/1979 | 2055.0 | Non-exempt | no | |
| 559109 | | | Southwest Gas Corp | 12-12-08bcd | | | | | | | Non-exempt | no | Withdrawal Permit |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 572213 | 322410111083901 | SC-07 | PC (RWRD) | 12-12-08cba | 2000-2011 | 123 | 153.8 | 1914.3 | 5/11/2011 | 2068.1 | Monitor | no | |
| 520130* | | | PC (RWRD) | 12-12-08cba | | | | | | | Monitor | no | abandoned 2/1997 |
| 549231 | | | PC (DOT) | 12-12-08cba | | | | | | | Other | no | Exploration well - abandoned 8/1995 |
| 578660 | | | A. E. Valencia | 12-12-08ccb | | | | | | | Exempt | no | |
| 585151 | | | A. E. Valencia | 12-12-08ccb | | | | | | | Exempt | no | |
| 543641 | | | G. T. Deen | 12-12-08ccb | | | | | | | Exempt | no | |
| 541397 | | | T. Zeigler | 12-12-08ccc | | | | | | | Exempt | no | |
| 604845 | 32240011180001 | Well No. 8.1 | Town of Marana | 12-12-08dac | | | | | | 2073.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 604855 | 322406111081101 | 8J | CMID | 12-12-08dba | 1985-2011 | 13 | 172.0 | 1899.4 | 3/1/2011 | 2071.4 | Non-exempt | yes | water level measured in Feb or Mar |
| 203719 | | | Vulcan Materials Co. | 12-12-07 | | | | | | | Other | no | Mineral exploration well |
| | 322406111092601 | | Benson | 12-12-07caa | 1959-1965 | 2 | 268.8 | 1974.8 | 1/17/1965 | 2063.5 | Exempt | no | |
| 201637 | | | F. Bellinger | 12-12-07cba | | | | | | | Exempt | no | |
| 605215 | 322400111095001 | Airline | Town of Marana | 12-12-07cbc | 1958-1968 | 9 | 287.1 | 1785.9 | 6/19/1968 | 2073.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 575610 | | | E. Carter | 12-12-07ccd | | | | | | | Exempt | no | |
| 605214 | 322344111094401 | Lambert | Town of Marana | 12-12-07cdc | 1973 | 1 | 290.0 | 1785.0 | 6/1/1973 | 2075.0 | Non-exempt | yes | Recovery Well Permit No. 74-211278 |
| 567902 | | | D. R. Stathem | 12-12-07dda | | | | | | | Exempt | no | |
| 638900 | | | L. L. Harbison | 12-12-07ddb | | | | | | | Exempt | no | |
| 807068 | | | R. A. Stephens | 12-12-07ddc | | | | | | | Exempt | no | |
| 807041 | | | C. B. Mitchell | 12-12-07ddc | | | | | | | Exempt | no | |
| 807012 | | | R. A. Stephens | 12-12-07ddc | | | | | | | Exempt | no | |
| 807069 | | | R. A. Stephens | 12-12-07ddc | | | | | | | Exempt | no | |
| 807028 | | | R. A. Stephens | 12-12-07ddc | | | | | | | Exempt | no | |
| 633279 | | | J. W. Jackson | 12-12-07ddd | | | | | | | Exempt | no | |
| 908248 | | | Cemex Construction Materials LP | 12-12-06 | | | | | | | Other | no | |
| 638589 | 322507111091901 | | Transglobal Atlas | 12-12-06acb | 1952-1957 | 14 | 196.6 | 1848.4 | 7/26/1957 | 2045.0 | Exempt | no | |
| 800856 | 322525111092701 | | LPE-1 LLC | 12-12-06baa | 1948 | 1 | 172.8 | 1868.2 | 6/29/1948 | 2041.0 | Exempt | no | |
| 801462 | | | LPE-1 LLC | 12-12-06baa | | | | | | | Exempt | no | |
| | 322518111092701 | | Hardin, W.T. | 12-12-06bad | 1939-1940 | 5 | 155.1 | 1885.9 | 2/19/1940 | 2041.0 | Exempt | no | |
| 905752 | | | D. Dobbs | 12-12-06bbb | | | | | | | Other | no | Soil vapor extraction |
| | 322505111094301 | | Cortaro Farms | 12-12-06bcd | 1940 | 1 | 66.5 | 1977.5 | 12/31/1940 | 2044.0 | Exempt | no | |
| * | 322512111092701 | | Garhartt, L. | 12-12-06bda | 1947 | 1 | 170.0 | 1873.1 | 8/1/1947 | 2043.0 | Other | no | well destroyed |
| 638526 | | | Calmat Co. | 12-12-06bdc | | | | | | | Exempt | no | |
| 508032 | | | USBR | 12-12-06c | | | | | | | Other | no | Exploration well - abandoned |
| 520123* | | | PC (RWRD) | 12-12-06cdc | | | | | | | Monitor | no | abandoned 8/21/1999 |
| 580676 | | SC-08 | PC (RWRD) | 12-12-06cdc | 1996-2011 | 35 | 212.0 | 1833.5 | 3/14/2011 | 2045.5 | Monitor | no | |
| | 322457111090801 | | | 12-12-06dab | 1995-2005 | 3 | 207.6 | 1846.4 | 1/18/2005 | 2054.0 | Exempt | no | |
| | 322446111091201 | No. 2 (USGS) | Rillito Town Well | 12-12-06dac | 1967 | 1 | 158.0 | 1898.0 | 11/1/1967 | 2056.0 | Non-exempt | no | |
| 801095 | | | B. Tammami | 12-12-06dac | | | | | | | Exempt | yes | |
| 801114 | | | M. Tammami | 12-12-06dad | | | | | | | Non-exempt | yes | |
| 504409 | 322453111091201 | | RWUA | 12-12-06dbd | 1995-2005 | 2 | 210.9 | 1844.1 | 1/18/2005 | 2055.0 | Non-exempt | yes | |
| 606066 | | | RWUA | 12-12-06dbd | | | | | | | Non-exempt | yes | |
| 514920 | 322524111075301 | Hayden Concrete | Wright Properties LLC | 12-12-05aaa | | | | | | 2139.0 | Exempt | no | |
| 203032 | | | Park N Shade RV LLC | 12-12-05aab | | | | | | | Exempt | no | |
| 594492 | | | Contractors Yards Inc | 12-12-05aab | | | | | | | Exempt | no | |
| 509253 | | | R. C. Ficket | 12-12-05abb | | | | | | | Exempt | no | |
| 507968 | 322516111081801 | | Buhrke Family Enterprises Ltd | 12-12-05abc | | | | | | 2090.0 | Exempt | no | |
| 501637 | 332509111081101 | | Breakers 95LLC | 12-12-05aca | 1995-2005 | 3 | 170.8 | 1911.2 | 1/18/2005 | 2082.0 | Non-exempt | yes | |
| 500800 | 332502111082101 | | Breakers 95LLC | 12-12-05acc | | | | | | 2069.0 | Non-exempt | yes | deepening of precode well |
| 585372 | | | Marlund Co. LLC | 12-12-05adb | | | | | | | Exempt | no | |
| 525213 | 322506111080601 | | Advantage Material LLC | 12-12-05adc | | | | | | 2192.0 | Exempt | no | |
| 507284 | 322517111080801 | | J. L. Brown | 12-12-05add | | | | | | 2105.0 | Exempt | no | |

* Well has been abandoned, destroyed, or cancelled (not drilled)

# Appendix A
## CORAZON DE TRES RIOS DEL NORTE
## Well Records by Cadastral Location (T-R-S): South - North

**Legend**
black = 2010 or 2011 records
blue = older than 2005 records
red = 2005 - 2009 records
purple = no water level records

| Wells 55 | GWSI | Owner ID | Owner (Manager) | Cadastral (T-R-S) | Period of Record | Records (#) | DTW | Water Level Elevation | Date | MP Elev. (ft MSL) | Well Type | Pumping Records | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 586280 | | | PMC Builders LLC | 12-12-05add | | | | | | | Exempt | no | |
| 601817 | | | Tangerine 38 LLC | 12-12-05bba | | | | | | | Exempt | no | |
| | 322517111085001 | | | 12-12-05bbc | 1947 | 1 | 150.0 | 1907.0 | 11/1/1947 | 2057.0 | Other | no | |
| 618392 | | | H. Kai | 12-12-05bbc | | | | | | | Non-exempt | yes | |
| 205079 | | | Tangerine Water Group NPC | 12-12-05bda | | | | | | | Non-exempt | no | Service well |
| 611242 | 322507111083201 | ASLD 35-84257 | R. C. Ficket | 12-12-05bdb | | | | | | 2063.0 | Non-exempt | no | |
| 214355 | | | NAC Shop LLC | 12-12-05bdb | | | | | | | Exempt | no | |
| 503678 | | | R. C. Ficket | 12-12-05bdc | | | | | | | Exempt | no | |
| 503193 | 322505111082801 | | R. C. Ficket | 12-12-05bdd | | | | | | 2063.0 | Exempt | no | |
| 626706 | 322451111085001 | Rillito 2 (SPRR) | UPRR | 12-12-06daa | 1995-2005 | 3 | 201.3 | 1854.7 | 1/18/2005 | 2056.0 | Non-exempt | yes | |
| | 322439111084901 | | Langhorn School | 12-12-05ccc | 1939 | 4 | 118.9 | 1941.1 | 12/29/1939 | 2060.0 | Other | no | |
| 618384 | 322440111080301 | | H. Kai et. al. | 12-12-05dcd | 1995-2005 | 3 | 154.7 | 1917.3 | 1/18/2005 | 2072.0 | Non-exempt | yes | |
| 618384 | 322435111075501 | | Kai, H. | 12-12-05ddd | 1995-2000 | 2 | 99.5 | 1978.0 | 2/27/2000 | 2077.0 | Non-exempt | yes | obstruction 1/18/2005 |
| 203718 | | | Vulcan Materials Co. | 12-11-12 | | | | | | | Other | no | |
| 508031* | | | USBR | 12-11-12a | | | | | | | Other | no | Exploration well - abandoned |
| 508595 | 322411111095801 | | BKW Farms Inc. | 12-11-12add | 1995-2000 | 2 | 235.7 | 1834.3 | 2/23/2000 | 2070.0 | Non-exempt | yes | Non-service well |
| 621848 | 322411111103801 | No. 3 | BKW Farms Inc. | 12-11-12bdc | 1952-2006 | 54 | 239.4 | 1820.6 | 1/8/2006 | 2060.0 | Non-exempt | yes | |
| 615833 | 322351111095901 | No. 2 (BKW) | ASLD | 12-11-12dad | 1951-2005 | 11 | 237.9 | 1834.1 | 1/18/2005 | 2072.0 | Non-exempt | yes | |
| 621849 | | | BKW Farms Inc. | 12-11-12dad | | | | | | | Non-exempt | no | |
| 542896* | | | Granite Construction Co. | 12-11-02 | | | | | | | Other | no | Exploration well - abnandoned 3/30/1994 |
| 552992 | | | PC (RFCD) | 12-11-02 | | | | | | | Other | no | Exploration well |
| 639728 | | | PC (RWRD) | 12-11-02aad | | | | | | | Exempt | no | |
| 639726 | | | PC (RWRD) | 12-11-02abb | | | | | | | Exempt | no | USF Permit #71-5613366.0002 |
| 639727 | | | PC (RWRD) | 12-11-02abc | | | | | | | Exempt | no | USF Permit #71-5613366.0002 & #71-591928 |
| 538011 | | | Granite Construction Co. | 12-11-02aca | | | | | | | Monitor | no | Monitor or Piezometer well |
| 538012 | | | Granite Construction Co. | 12-11-02aca | | | | | | | Monitor | no | Monitor or Piezometer well |
| 87618 | 322527111112601 | | PC (RWRD) | 12-11-02baa | | | | | | 2018.0 | Non-exempt | yes | |
| 587615 | | | PC (RWRD) | 12-11-02dbc | | | | | | | Other | no | Geotechnical well |
| 510122 | 322437111111701 | TA-47 PZ1 | USBR | 12-11-02dcd | 1985-1993 | 16 | 239.9 | 1795.1 | 6/7/1993 | 2035.0 | Other | no | Exploration well; USFP #71-561366.0002 |
| 510122 | 322437111111700 | TA-47 PZ2 | USBR | 12-11-02dcd | | | | | | | Other | no | Exploration well; USFP #71-561366.0002 |
| 506750 | | | USBR | 12-12-01 | | | | | | | Other | no | Exploration well |
| 911088* | | | Granite Construction Co. | 12-12-01 | | | | | | | Other | no | Geotechnical well - abandoned 9/14/2009 |
| 908249 | | | Cemex Construction Materials LP | 12-12-01 | | | | | | | Other | no | Mineral exploration well |
| | 322503111101901 | | Cortaro Farms | 12-11-01acd | 1939-1943 | 23 | 169.5 | 1867.5 | 4/3/1943 | 2037.0 | Other | no | |
| 533511 | | | Granite Construction Co. | 12-11-01bcb | | | | | | | Non-exempt | yes | Withdrawal Permit |
| 508030* | | | USBR | 12-11-01c | | | | | | | Other | no | Exploration well - abandoned |
| 621365 | 322456111102601 | Payne No. 2 | Granite Construction Co. | 12-11-01caa | 1953-1965 | 3 | 251.0 | 1784.0 | 1/14/1965 | 2035.0 | Non-exempt | yes | |
| 632604 | 322451111101101 | | Granite Construction Co. | 12-11-01db | | | | | | 2032.0 | Exempt | no | |
| 512618 | | | USBR | 12-11-01dd | | | | | | | Non-exempt | no | Withdrawal Permit #59-512618 |
| 552991 | | | Pima County | 12-11-01dd | | | | | | | Other | no | Exploration well |
| 508652 | 322444111095401 | TA-38 PZ1 | USBR | 12-11-01dda | 1984-2010 | 49 | 205.8 | 1835.2 | 12/14/2010 | 2041.0 | Other | no | Exploration well |
| 508652 | 322444111095402 | TA-38 PZ2 | USBR | 12-11-01dda | 1984-2010 | 47 | 84.8 | 1956.2 | 12/15/2010 | 2041.0 | Other | no | Exploration well |
| 508652 | 322444111095400 | TA-38 PZ3 | USBR | 12-11-01dda | | | | | | 2041.0 | Other | no | Exploration well |

* Well has been abandoned, destroyed, or cancelled (not drilled)