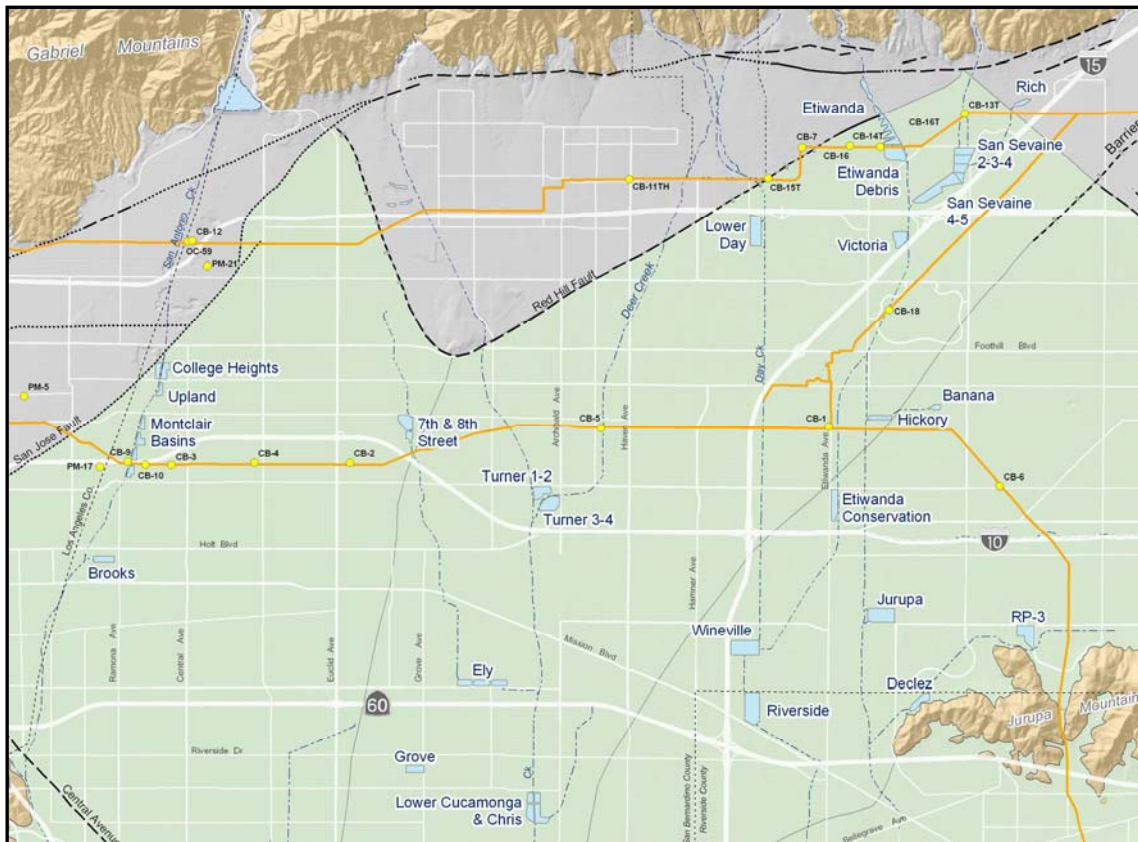


# Chino Basin Recycled Water Groundwater Recharge Program

## Quarterly Monitoring Report January through March 2007



*Prepared by:*



*and*



May 15, 2007



**Patrick O. Shields**  
Executive Manager of Operations

**Kenneth Manning**  
CEO

May 15, 2007

Regional Water Quality Control Board, Santa Ana Region  
**Attention: Mr. Gerard Thibeault**  
3737 Main Street, Suite 500  
Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program**  
**Transmittal of the Quarterly Monitoring Report for January through March 2007**

Dear Mr. Thibeault,

The Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) hereby submit the *Quarterly Monitoring Report* for the first quarter of 2007 (1Q07), January through March 2007, for the *Recycled Water Groundwater Recharge Program*. This document is submitted pursuant to requirements in Order No. R8-2005-0033 and Monitoring and Reporting Program No. R8-2005-0033:

- California Regional Water Quality Control Board, Santa Ana Region. Order No. R8-2005-0033. Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County. Final Order: April 2005.
- California Regional Water Quality Control Board, Santa Ana Region. Monitoring and Reporting Program No. R8-2005-0033 for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County.

#### DECLARATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments thereto; and that, based on my inquiry of the individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

Executed on the 15<sup>th</sup> day of May 2007 at IEUA's office in Chino, California and in the City of Montclair.

Patrick O. Shields  
Executive Manager of Operations

Kenneth Manning  
Chief Executive Officer

Inland Empire Utilities Agency  
P.O. Box 9020  
Chino Hills, CA 91708  
909.993.1740

Chino Basin Watermaster  
9641 San Bernardino Road  
Rancho Cucamonga, CA 91730  
909.484.3888

# **Chino Basin Recycled Water Groundwater Recharge Program**

## **Quarterly Monitoring Report**

**January through March 2007**

*Prepared by:*



*and*



**May 15, 2007**

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## 1. Introduction

The Inland Empire Utilities Agency (IEUA), Chino Basin Watermaster (Watermaster), Chino Basin Water Conservation District, and San Bernardino County Flood Control District jointly sponsor the Chino Basin Recycled Water Groundwater Recharge Program. This is a comprehensive water supply program to enhance water supply reliability and improve groundwater quality in local drinking water wells throughout the Chino Groundwater Basin by increasing the recharge of stormwater, imported water, and recycled water. This program is an integral part of Watermaster's Optimum Basin Management Program (OBMP).

### 1.1 Requirements of Order No. R8-2005-0033

The Recycled Water Groundwater Recharge Program being implemented by the IEUA and Watermaster is subject to the following requirements:

- California Regional Water Quality Control Board, Santa Ana Region (RWQCB). Order No. R8-2005-0033 (Order). Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County, April 15, 2005.
- RWQCB, Santa Ana Region. Monitoring and Reporting Program (M&RP) No. R8-2005-0033 for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County, April 15, 2005.

The M&RP (RWQCB, 2005b) describes the requirements for the quarterly monitoring reports. This document is the quarterly report for the First Quarter of 2007 (1Q07). The following is an excerpt of Section VI of the M&RP, which details the requirements of quarterly monitoring reports:

#### VI. REPORTING REQUIREMENTS

##### A. Quarterly Monitoring Reports

1. Quarterly monitoring reports shall be submitted in accordance with following schedule:

| <u>Reporting Period</u> | <u>Report Due Date</u>    |
|-------------------------|---------------------------|
| January – March         | May 15 <sup>th</sup>      |
| April – June            | August 15 <sup>th</sup>   |
| July – September        | November 15 <sup>th</sup> |
| October – December      | February 15 <sup>th</sup> |

2. If no reclaimed water was delivered for spreading during the quarter, the report shall so state.
3. Each quarterly monitoring report shall include, at a minimum, the following:
  - a. All monitoring results for recycled water produced from the RWRP-1 and RWRP-4 facilities, diluents, recharged water with or without blending with diluents prior to recharge, and groundwater.
  - b. A tabular form report showing the amount of recharged recycled water and diluent water recharge[d] into each recharge basin including any non-compliance events, which occurred at the individual recharge sites during the reporting period. A summary of these data shall be included in the annual report.



- 
- c. Records of any operational problems, plant upset and equipment breakdowns or malfunctions, and any diversion(s) of off-specification recycled water and the location(s) of final disposal.
  - d. All corrective or preventive action(s) taken.
  - e. A certification by the users that no groundwater has been pumped from the zone that extends 500 feet and 6 months underground travel time from the recharge basin(s) where recycled water is applied for domestic water supply use.
  - f. The Regional Board may request supporting documentation, such as daily logs of operations.

## **1.2 Basin Operations**

During 1Q07, the IEUA recharged recycled water at Banana Basin, Hickory Basin, and the Turner Basins. Recycled water was not recharged in the other Phase 1 basins during 1Q07; namely, RP3 and Declez Basins.

This quarterly report contains the monitoring results for Banana, Hickory, and Turner Basins operations through the completion of 1Q07. Because compliance monitoring points have not yet been established for the Turner Basins, all sampling data are presented in this report for these basins. In the quarterly reports following the completion of the basin Start-Up Period reports, quarterly monitoring and reporting will be limited to sampling points that are selected as the compliance monitoring points; as was determined through the Start-Up Protocols.

## **1.3 Outline of the Quarterly Report**

Section 2 of this quarterly report discusses the monitoring results for recycled water, diluent water, basin surface water, vadose zone water from lysimeters, and groundwater water from monitoring wells. Section 3 provides an overview of recharge operations, including the volume of diluent water and recycled water recharged. Section 4 describes any operational problems that were encountered. Section 5 provides any preventive and/or corrective actions taken. Finally, Section 6 contains the certification of non-pumping in the 500-foot buffer zones around each basin.



## 2. Monitoring Results

### 2.1 Recycled Water: RP-1 and RP-4

The requirements for recycled water monitoring are provided in the M&RP (RWQCB, 2005b). Tables 2-1 through 2-9 list all of the requisite 1Q07 data results. Many of the limits defined in the Order are based on moving averages. For example, compliance with Recycled Water Specifications A.1 and A.2 (Tables I and II in the Order) “shall be based on the running-quarterly average concentration, calculated each quarter using the previous consecutive four quarterly data for the specific constituent.” Running-quarterly average concentration data for 2Q06 through 1Q07 are summarized in Table 2-4 of this report. The compliance limits for analytes with specified limits in Tables I through III of the Order (RWQCB, 2005a) are included next to the results in Tables 2-6, 2-7, and 2-9 to facilitate comparison.

In the process of selecting a recycled water sampling location that is representative of the system blend of recycled water recharge, the IEUA has conducted sampling from the distribution pipeline at the turnout to Reliant Energy, an IEUA customer. For most constituents, this sampling location has been suitable; however, it is not suitable for parameters that can change upon leaving the reclamation plants. Such parameters include Total Trihalomethanes (THMs) and Total Haloacetic Acids (HAA5). Over the past 12 months, THMs of the RP1 and RP4 blended recycled water have ranged between 26 and 241 mg/L and averaged approximately 126 mg/L. The IEUA has also conducted sampling of the surface water and pore water in the 25-foot lysimeters at the Hickory Basin East Cell. The samples collected at the basin provide more consistent and representative samples of the recharged water prior to reaching the groundwater table.

Of the numerous parameters tested at the distribution system location and at the basins, only odor exceeded limits of the Order during 1Q07. Additional stormwater sampling of the basin and lysimeters has indicated that a slight odor is common to the formation.

For 1Q07, samples for THMs and HAA5 were collected from the 25-foot lysimeter in the Hickory Basin East Cell on February 14, 2007; the 25-foot lysimeter is considered the future compliance point for these constituents. The result for THMs from the 25-foot lysimeter sample was 13 µg/L, and the result for HAA5 was <1 µg/L. A summary of these data can be found in Table 2-6. Compliance with the specified limits (THMs-80 µg/L and HAA5-60 µg/L) for THMs and HAA5 was achieved before the delivered, recycled water reached the groundwater table.

In addition to the limits listed in Tables I, II, and III of the Order, the following “narrative” limits also apply to recycled water quality (A.4 through A.8 in RWQCB, 2005a):

4. Recycled water produced by RP-1 and RP-4 for recharge shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:
  - a. The turbidity of the filter effluent shall not exceed any of the following:
    - (1) Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
    - (2) 5 NTU more than 5 percent of the time in any 24-hour period; and
    - (3) 10 NTU at any time.
  - b. The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
  - c. The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period prior to spreading.
  - d. No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.



5. The Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) concentration of the recycled water shall not exceed a 12-month running average concentration limit of 550 mg/l and 8 mg/l, respectively from the combined effluent of all IEUA treatment plants (see also Provisions H.4. and H.5.).
6. The recycled water used for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall not contain constituent concentrations that exceed the following limitations:
  - a. A total nitrogen concentration of 10 mg/L;
  - b. The sum of nitrite, organic, and ammonia nitrogen shall not exceed 5 mg/L as nitrogen; and
  - c. The nitrite level shall not exceed 1 mg/L as nitrogen.
7. The pH of recycled water used for recharge shall at all times be within the range of 6 to 9 pH units.
8. The total organic carbon (TOC) concentration of the filtered wastewater shall not exceed 16 mg/L for more than two consecutive readings.

None of these limits were exceeded in 1Q07, as summarized in Tables 2-1 through 2-3.

## **2.2 Diluent Water**

In 1Q07, State Water Project (SWP) water and local runoff were delivered to the Banana Basin, the Hickory Basin, and the Turner Basins. Table 3-1 lists the schedule of diluent water deliveries to these basins. Table 2-10 lists the water quality of the SWP water. These water quality data were reported by the LaVerne laboratory of the Metropolitan Water District of Southern California.

## **2.3 Basin and Lysimeter Samples**

The M&RP schedule (RWQCB, 2005b) for basin and lysimeter sampling is as follows:

- TOC: Weekly
- Nitrate-Nitrogen: Twice per Week
- Nitrate-Nitrogen: Twice per Week
- Nitrite-Nitrogen: Twice per Week
- Ammonia: Twice per Week
- Organic Nitrogen: Twice per Week
- Total Inorganic Nitrogen (TIN) – by Addition: Twice per Week
- Total Nitrogen (TN) – by Addition: Twice per Week

Based on the fact that historical nitrogen analyses at the basins and lysimeters are significantly and consistently below the 10 mg/L compliance concentration, the CDHS has communicated that nitrogen sampling and analysis can be reduced to weekly. As sampling has shown, nitrogen in RP1 and RP4 plant effluent is also predominately less than 10 mg/L; however, sampling will continue at two times per week. The basin and lysimeter data are summarized in Tables 2-11 through 2-17. The tables include data for the Banana, Hickory, and Turner Basins and are organized by analyte group (TOC, Nitrogen Species). Banana Basin was only sampled for TOC as recommended in the Start-Up Period report, compliance regarding Nitrogen Species at this basin is determined at the RP-1 and RP-4 plant effluent.





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## 2.4 Groundwater Monitoring Wells

Groundwater quality within the vicinity of the Banana and Hickory Basins is monitored by sampling a network of six wells, including one nested monitoring well (BH-1) down gradient of Hickory Basin (Figure 2-1). BH-1 is a nest of two casings: BH-1/1, from 366-406 feet below the top of the casing; and BH-1/2, from 437-477 feet below the top of the casing. BH-1/1 was constructed above the regional groundwater table in anticipation of a future water level rise and is not sampled at this time. Should the regional water table rise, the sampling of BH-1/1 will replace the sampling of BH-1/2.

Groundwater quality within the vicinity of the Turner Basins is monitored by sampling a network of five wells, including two nested wells (Figure 2-2). T-1 is a nest of two casings: T-1/1, from 340-360 feet below ground surface; and T-1/2, from 380-400 feet below ground surface. T-2 is also a nest of two casings: T-2/1, from 350-370 feet below ground surface; and T-2/2, from 392-412 feet below ground surface. T-1/1 and T-2/1 were constructed above the regional groundwater table in anticipation of a future water level rise, and are not sampled at this time. Should the regional water table rise, the sampling of T-1/1 and T-2/1 will replace the sampling of T-1/2 and T-2/2, respectively.

All constituents analyzed from the monitoring wells during 1Q07 were below their respective MCLs. Groundwater monitoring results are presented in Table 2-18. Based on the Title 22 Engineering Report (CH2M-Hill, 2003), the travel times to wells BH-1, T-1, and T-2 were all approximately 6 months. Electrical conductivity (EC) listed in Table 2-18 as Specific Conductance is used as an indicator of recycled water presence at the monitoring wells. The IEUA began recharging recycled water in Banana Basin, Hickory Basin, and the Turner Basins in July 2005, September 2005, and July 2006, respectively. Groundwater quality results for 1Q07 at BH-1/2, T-1, and T-2 show a background condition for EC as do the other area monitoring wells.



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### 3. Recharge Operations

The IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water routed to the Banana, Hickory, and Turner Basins. The Banana, Hickory, and Turner Basins were the only Phase 1 recharge basins to receive recycled water this quarter. Table 3-1 lists the schedule of diluent water, recycled water, and/or local runoff captured at these basins.

#### **Banana Basin**

Recycled water was delivered periodically through the Whittram force main. Local runoff and imported water were also delivered to Banana Basin during 1Q07 by pumping from Hickory Basin.

#### **Hickory Basin**

Recycled water was delivered periodically through the Whittram force main. Perennial local runoff was captured in Hickory Basin from the San Sevaine Channel during 1Q07. Imported water was delivered to Hickory Basin during 1Q07; some of which was pumped to Banana Basin.

#### **Turner Basins**

During 3Q06, the Start-Up Period for the Turner Basins was initiated. Recycled water was delivered through the RP4 west extension recycled water pipeline. Local runoff was captured in the Turner Basins from Deer Creek—commingled with recycled water in Deer Creek—en route to the Turner Basins. During Start-Up Period testing, local runoff has been collected at the Turner Basins only when recycled water is routed to the basins in order to maximize the percentage of recycled water recharged.



## **4. Operational Problems Encountered**

### **4.1 Regional Plants RP-1 and RP-4**

No operational problems were encountered this quarter.

### **4.2 Recharge Operations**

No operational problems were encountered this quarter.

### **4.3 Lysimeter Sampling**

No operational problems were encountered this quarter.

### **4.4 Monitoring Well Sampling**

No operational problems were encountered this quarter.



## **5. Preventive and/or Corrective Actions**

### **5.1 Regional Plants RP-1 and RP-4**

As no operational problems were encountered this quarter, no corrective actions were necessary.

### **5.2 Recharge Operations**

As no operational problems were encountered this quarter, no corrective actions were necessary.

### **5.3 Lysimeter Sampling**

As no operational problems were encountered this quarter, no corrective actions were necessary.

### **5.4 Monitoring Well Sampling**

As no operational problems were encountered this quarter, no corrective actions were necessary.



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## 6. Certification of Non-Pumping in the Buffer Zones

Watermaster has certified that there was no reported pumping of groundwater for domestic or municipal use from the zones that extend 500 feet and 6 months underground travel time from the Hickory, Banana, and Turner Basins in 1Q07. In fact, there are no production wells within the buffer zones of these three basins. Appendix A provides a letter from Watermaster that certifies non-pumping in the buffer zones.

The IEUA will continue to work with the San Bernardino County Department of Environmental Health Services (SBCDEHS) to prevent the drilling and construction of new drinking water wells within the buffer zones.

The SBCDEHS reviews new well permit applications in part by checking the proposed location of a new drinking water well against a list of parcels that abut recharge basins and their 500-foot buffers. The IEUA has provided the SBCDEHS with a list of parcels abutting each recharge basin and a series of maps showing the recharge basins, buffers, and township/range/section parcels adjacent the basins and buffers. If a well falls within an abutting parcel, the SBCDEHS will review the proposed well location using maps of the basins and buffers. If the well falls too near the buffer boundary for the SBCDEHS to determine the relationship of the proposed well location to the buffer boundary, the SBCDEHS will defer to the IEUA for a prompt review of the proposed well location, utilizing a field review. The field review may include contacting and having the well applicant identify the exact location of the proposed well casing. To conduct a detailed field review, the SBCDEHS will contact and provide the IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a timeline for the completion of the IEUA's review. Following the review, the IEUA will notify the SBCDEHS of its findings in writing. The IEUA will also notify the CDHS and the RWQCB of well permit applications that it recommends be declined due to well locations that are determined to fall within a 500-foot buffer.

The SBCDEHS has initiated control over production well permitting within the buffer zones of all Phase 1 basins through the use of buffer zone maps that utilize the same land coordinate system (Township/Range/Section) that is used in the permitting process.



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## 7. References

- California Regional Water Quality Control Board, Santa Ana Region. 2005a. Order No. R8-2005-0033. *Water Recycling Requirements for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County.* Draft Order: April 2005.
- California Regional Water Quality Control Board, Santa Ana Region. 2005b. *Monitoring and Reporting Program No. R8-2005-0033 for Inland Empire Utilities Agency and Chino Basin Watermaster. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project, San Bernardino County.*
- CH2M-Hill. 2003. *Title 22 Engineering Report. Phase 1 Chino Basin Recycled Water Groundwater Recharge Project. Final Report.* Prepared for the Inland Empire Utilities Agency. November 2003.
- Metropolitan Water District of Southern California. 2006. *Table D. Monthly Analyses of the District Water Supplies – January 2006.*
- Metropolitan Water District of Southern California. 2006. *Table D. Monthly Analyses of the District Water Supplies – February 2006.*
- Metropolitan Water District of Southern California. 2006. *Table D. Monthly Analyses of the District Water Supplies – March 2006.*
- Wildermuth Environmental, Inc. 1999. *Chino Basin Optimum Basin Management Program, Phase I Report.* Prepared for Chino Basin Watermaster. August 19, 1999.





**Table 2-1**  
**Results of Daily Recycled Water Monitoring for January 2007: Turbidity, TOC, Ammonia-N, Nitrate-N, Nitrite-N, TKN, TN, TKN+Nitrite, TIN, pH, EC, TDS, Hardness, and Coliform**

| Date        | RP1 Effluent           |      |                    |                    |                    |      |      |                        |      |                 |      |      |          |               | RP4 Effluent           |      |                    |                    |                    |      |      |                        |      |                 |        |      |          |               |
|-------------|------------------------|------|--------------------|--------------------|--------------------|------|------|------------------------|------|-----------------|------|------|----------|---------------|------------------------|------|--------------------|--------------------|--------------------|------|------|------------------------|------|-----------------|--------|------|----------|---------------|
|             | Turbidity <sup>2</sup> | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN+NO <sub>2</sub> -N | TIN  | pH <sup>2</sup> | EC   | TDS  | Hardness | Coliform      | Turbidity <sup>2</sup> | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN+NO <sub>2</sub> -N | TIN  | pH <sup>2</sup> | EC     | TDS  | Hardness | Coliform      |
|             | NTU                    | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                   | mg/L | µmho/cm         | mg/L | mg/L | mg/L     | MPN           | NTU                    | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                   | mg/L | µmho/cm         | mg/L   | mg/L | mg/L     | MPN           |
| Order Limit | 2, 5, 10               | 16   |                    |                    | 1                  |      | 10   | 5                      | 8    | 6<pH<9          |      | 550  |          | 2, 2, 23, 240 | 2, 5, 10               | 16   |                    |                    |                    | 1    |      | 10                     | 5    | 8               | 6<pH<9 | 550  |          | 2, 2, 23, 240 |
| 1/1/2007    | 1.0                    | 7.5  | <0.1               |                    |                    |      |      |                        |      | 7.86            | 775  |      |          | <2            | 0.8                    | 6.3  | <0.1               | 1.6                | <0.01              |      |      |                        |      | 1.6             | 755    |      |          | <2            |
| 1/2/2007    | 1.0                    | 7.6  | <0.1               | 8.4                | <0.01              | 1.9  | 10.2 | 1.9                    | 8.4  | 7.79            | 770  | 464  | 150      | 2             | 0.9                    | 6.2  | <0.1               | 1.5                | <0.01              | 0.9  | 2.4  | 0.9                    | 1.5  | 760             | 452    | 137  |          | <2            |
| 1/3/2007    | 1.0                    | 7.1  |                    |                    |                    |      |      |                        |      | 7.82            | 755  |      |          | <2            | 0.6                    | 6.2  | <0.1               | 1.4                | <0.01              |      |      |                        |      | 1.4             | 745    |      |          | <2            |
| 1/4/2007    | 1.0                    | 6.4  | <0.1               | 7.7                | 0.02               |      |      |                        | 7.8  | 7.39            | 770  |      |          | <2            | 0.7                    | 7.4  | <0.1               | 2.0                | <0.01              |      |      |                        |      | 2.0             | 750    |      |          | <2            |
| 1/5/2007    | 0.9                    | 6.3  |                    |                    |                    |      |      |                        |      | 6.97            | 775  |      |          | <2            | 0.9                    | 8.2  | <0.1               | 3.2                | <0.01              |      |      |                        |      | 3.2             | 765    |      |          | <2            |
| 1/6/2007    | 0.9                    | 6.2  |                    |                    |                    |      |      |                        |      | 7.16            | 750  |      |          | <2            | 1.0                    | 8.8  | <0.1               | 4.1                | <0.01              |      |      |                        |      | 4.1             | 765    |      |          | <2            |
| 1/7/2007    | 1.0                    | 6.7  | <0.1               | 6.9                | 0.01               | 1.3  | 8.2  | 1.3                    | 6.9  | 6.87            | 775  |      |          | <2            | 0.7                    | 9.0  | <0.1               | 3.0                | <0.01              | 1.3  | 4.2  | 1.3                    | 3.0  | 775             |        |      |          | <2            |
| 1/8/2007    | 1.0                    | 6.8  |                    |                    |                    |      |      |                        |      | 7.52            | 765  |      |          | 2             | 0.5                    | 8.1  | <0.1               | 2.3                | <0.01              |      |      |                        |      | 2.3             | 785    |      |          | <2            |
| 1/9/2007    | 1.0                    | 6.6  | <0.1               | 7.4                | <0.01              |      |      |                        | 7.4  | 7.26            | 770  | 470  |          | <2            | 0.5                    | 8.5  | <0.1               | 5.1                | 0.02               |      |      |                        |      | 5.1             | 790    | 472  |          | <2            |
| 1/10/2007   | 0.9                    | 6.4  |                    |                    |                    |      |      |                        |      | 7.29            | 770  |      |          | <2            | 0.6                    | 7.7  | <0.1               | 2.1                | <0.01              |      |      |                        |      | 2.1             | 800    |      |          | <2            |
| 1/11/2007   | 0.9                    | 6.0  | <0.1               | 8.4                | 0.03               | 1.1  | 9.5  | 1.1                    | 8.4  | 6.89            | 765  |      |          | 2             | 0.6                    | 8.4  | <0.1               | 2.4                | <0.01              | 1.2  | 3.6  | 1.2                    | 2.4  | 775             |        |      |          | <2            |
| 1/12/2007   | 0.8                    | 5.9  |                    |                    |                    |      |      |                        |      | 7.20            | 765  |      |          | <2            | 0.5                    | 7.6  | <0.1               | 2.6                | <0.01              |      |      |                        |      | 2.6             | 745    |      |          | <2            |
| 1/13/2007   | 0.8                    | 5.9  | <0.1               |                    |                    |      |      |                        |      | 6.44            | 755  |      |          | <2            | 0.6                    | 8.1  | <0.1               | 3.0                | <0.01              |      |      |                        |      | 3.0             | 750    |      |          | <2            |
| 1/14/2007   | 0.8                    | 6.3  | <0.1               | 8.2                | <0.01              | 1.4  | 9.6  | 1.4                    | 8.2  | 7.88            | 750  |      |          | <2            | 0.5                    | 7.8  | <0.1               | 2.9                | <0.01              | 1.4  | 4.3  | 1.4                    | 2.9  | 765             |        |      |          | <2            |
| 1/15/2007   | 0.8                    | 6.3  | <0.1               |                    |                    |      |      |                        |      | 7.54            | 755  |      |          | 2             | 0.4                    | 7.3  | <0.1               | 2.3                | <0.01              |      |      |                        |      | 2.3             | 760    |      |          | <2            |
| 1/16/2007   | 0.8                    | 6.2  | <0.1               | 5.1                | 0.02               | 1.4  | 6.5  | 1.4                    | 5.1  | 7.87            | 765  | 464  |          | <2            | 0.4                    | 6.8  | <0.1               | 2.2                | <0.01              |      |      |                        |      | 2.2             | 775    | 456  |          | <2            |
| 1/17/2007   | 0.9                    | 6.5  | <0.1               |                    |                    |      |      |                        |      | 7.70            | 785  |      |          | 2             | 0.5                    | 6.8  | <0.1               | 2.7                | <0.01              |      |      |                        |      | 2.7             | 750    |      |          | <2            |
| 1/18/2007   | 1.0                    | 6.9  | <0.1               | 7.2                | <0.01              |      |      |                        | 7.2  | 7.76            | 805  |      |          | <2            | 0.6                    | 6.4  | <0.1               | 3.2                | <0.01              |      |      |                        |      | 3.2             | 745    |      |          | <2            |
| 1/19/2007   | 1.1                    | 7.0  |                    |                    |                    |      |      |                        |      | 7.72            | 820  |      |          | <2            | 0.5                    | 6.5  | <0.1               | 2.7                | <0.01              |      |      |                        |      | 2.7             | 750    |      |          | <2            |
| 1/20/2007   | 0.9                    | 7.0  |                    |                    |                    |      |      |                        |      | 7.88            | 825  |      |          | <2            | 0.5                    | 6.7  | <0.1               | 2.6                | <0.01              |      |      |                        |      | 2.6             | 750    |      |          | <2            |
| 1/21/2007   | 0.8                    | 6.9  | <0.1               | 7.5                | <0.01              | 1.5  | 9.0  | 1.5                    | 7.5  | 8.42            | 770  |      |          | <2            | 0.4                    | 6.8  | <0.1               | 2.4                | <0.01              | 1.0  | 3.4  | 1.0                    | 2.4  | 775             |        |      |          | <2            |
| 1/22/2007   | 0.8                    | 6.4  | <0.1               |                    |                    |      |      |                        |      | 7.97            | 770  |      |          | 2             | 0.4                    | 6.8  | <0.1               | 2.5                | <0.01              |      |      |                        |      | 2.5             | 770    |      |          | <2            |
| 1/23/2007   | 0.9                    | 6.8  | <0.1               | 8.3                | <0.01              |      |      |                        | 8.3  | 8.16            | 760  | 468  |          | <2            | 0.5                    | 6.7  | <0.1               | 2.5                | <0.01              |      |      |                        |      | 2.5             | 765    | 454  |          | <2            |
| 1/24/2007   | 0.9                    | 6.4  | <0.1               |                    |                    |      |      |                        |      | 7.60            | 765  |      |          | 2             | 0.5                    | 6.7  | <0.1               | 3.7                | <0.01              |      |      |                        |      | 3.7             | 770    |      |          | <2            |
| 1/25/2007   | 0.9                    | 6.6  | <0.1               | 9.0                | <0.01              | 1.1  | 10.1 | 1.1                    | 9.0  | 7.99            | 780  |      |          | <2            | 0.5                    | 6.6  | <0.1               | 5.2                | <0.01              | 0.6  | 5.7  | 0.6                    | 5.2  | 770             |        |      |          | <2            |
| 1/26/2007   | 0.9                    | 6.5  |                    |                    |                    |      |      |                        |      | 7.79            | 770  |      |          | <2            | 0.5                    | 6.7  | <0.1               | 5.5                | <0.01              |      |      |                        |      | 5.5             | 780    |      |          | <2            |
| 1/27/2007   | 1.0                    | 6.6  |                    |                    |                    |      |      |                        |      | 8.20            | 770  |      |          | <2            | 0.7                    | 7.0  | <0.1               | 5.4                | <0.01              |      |      |                        |      | 5.4             | 800    |      |          | <2            |
| 1/28/2007   | 1.0                    | 6.9  | <0.1               | 8.1                | <0.01              | 1.3  | 9.4  | 1.3                    | 8.1  | 8.68            | 800  |      |          | 4             | 0.6                    | 7.2  | <0.1               | 4.1                | <0.01              | 1.0  | 5.1  | 1.0                    | 4.1  | 805             |        |      |          | <2            |
| 1/29/2007   | 1.0                    | 6.7  | <0.1               |                    |                    |      |      |                        |      | 8.30            | 805  |      |          | <2            | 0.5                    | 7.0  | <0.1               | 3.4                | <0.01              |      |      |                        |      | 3.4             | 810    |      |          | <2            |
| 1/30/2007   | 1.0                    | 6.7  | <0.1               | 8.1                | <0.01              |      |      |                        | 8.1  | 8.64            | 790  | 486  |          | <2            | 0.4                    | 6.7  | <0.1               | 3.5                | <0.01              |      |      |                        |      | 3.5             | 800    | 472  |          | <2            |
| 1/31/2007   | 1.0                    | 6.2  | <0.1               |                    |                    |      |      |                        |      | 8.91            | 780  |      |          | 2             | 0.5                    | 6.3  | <0.1               | 4.6                | <0.01              |      |      |                        |      | 4.6             | 805    |      |          | <2            |
| Average     | 0.9                    | 6.6  | <0.1               | 7.7                | 0.02               | 1.4  | 9.1  | 1.4                    | 7.7  | 7.72            | 775  | 470  | 150      | <2            | 0.6                    | 7.2  | <0.1               | 3.1                | <0.01              | 1.0  | 4.1  | 1.0                    | 3.1  | 771             | 461    | 137  |          | <2            |
| Min         | 0.8                    | 5.9  | <0.1               | 5.1                | <0.01              | 1.1  | 6.5  | 1.1                    | 5.1  | 6.44            | 750  | 464  | 150      | <2            | 0.4                    | 6.2  | <0.1               | 1.4                | <0.01              | 0.6  | 2.4  | 0.6                    | 1.4  | 745             | 452    | 137  |          | <2            |
| Max         | 1.1                    | 7.6  | <0.1               | 9.0                | 0.03               | 1.9  | 10.2 | 1.9                    | 9.0  | 8.91            | 825  | 486  | 150      | 4             | 1.0                    | 9.0  | <0.1               | 5.5                | 0.02               | 1.4  | 5.7  | 1.4                    | 5.5  | 810             | 472    | 137  |          | <2            |

<sup>2</sup>Turbidity and pH are 24 Hour averages of continuous monitoring

Recycled water produced by RP-1 and RP-4 for recharge shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:

- The turbidity of the filter effluent shall not exceed any of the following:
  - Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
  - 5 NTU more than 5 percent of the time in any 24-hour period; and
  - 10 NTU at any time.
- The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
- The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period prior to spreading.
- No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

The Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) concentration of the recycled water used for recharge shall not exceed a 12-month running average concentration limit of 550 mg/L and 8 mg/L, respectively.

The recycled water used for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall not contain constituent concentrations that exceed the following limitations:

- A total nitrogen concentration of 10 mg/L;
- The sum of nitrite, organic, and ammonia nitrogen shall not exceed 5 mg/L as nitrogen; and
- The nitrite level shall not exceed 1 mg/L as nitrogen.

The pH of recycled water for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall at all times be within the range of 6 to 9 pH units.

For the first year of operation after project start-up, the weekly average total organic carbon (TOC) concentration of the filtered wastewater shall not exceed 16 mg/L.

QC: Quality Control Failure, no data reported.

**Bold signifies an exceedance of a limit in the Order.**



**Table 2-2**  
**Results of Daily Recycled Water Monitoring for February 2007: Turbidity, TOC, Ammonia-N, Nitrate-N, Nitrite-N, TKN, TN, TKN+Nitrite, TIN, pH, EC, TDS, Hardness, and Coliform**

| Date        | RP1 Effluent           |      |                    |                    |                    |      |      |                        |      |                 |         |      |          |            | RP4 Effluent           |      |                    |                    |                    |      |      |                        |      |                 |         |      |          |            |
|-------------|------------------------|------|--------------------|--------------------|--------------------|------|------|------------------------|------|-----------------|---------|------|----------|------------|------------------------|------|--------------------|--------------------|--------------------|------|------|------------------------|------|-----------------|---------|------|----------|------------|
|             | Turbidity <sup>1</sup> | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN+NO <sub>2</sub> -N | TIN  | pH <sup>1</sup> | EC      | TDS  | Hardness | Coliform   | Turbidity <sup>1</sup> | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN+NO <sub>2</sub> -N | TIN  | pH <sup>1</sup> | EC      | TDS  | Hardness | Coliform   |
|             | NTU                    | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                   | mg/L | µmho/cm         | µmho/cm | mg/L | mg/L     | MPN        | NTU                    | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                   | mg/L | µmho/cm         | µmho/cm | mg/L | mg/L     | MPN        |
| Order Limit | 2, 5, 10               | 16   |                    |                    | 1                  |      | 10   | 5                      | 8    | 6<pH<9          |         | 550  |          | 2, 23; 240 | 2, 5, 10               | 16   |                    |                    | 1                  |      | 10   | 5                      | 8    | 6<pH<9          |         | 550  |          | 2, 23; 240 |
| 2/1/2007    | 0.9                    | 6.1  | <0.1               | 9.0                | <0.01              | 1.2  | 10.2 | 1.2                    | 9.0  | 8.11            | 770     |      |          | <2         | 0.5                    | 6.7  | <0.1               | 7.1                | <0.01              | 1.1  | 8.2  | 1.1                    | 7.1  |                 | 830     |      |          | <2         |
| 2/2/2007    | 0.9                    | 6.0  |                    |                    |                    |      |      |                        |      | 8.16            | 775     |      |          | <2         | 0.5                    | 6.4  | <0.1               | 8.5                | <0.01              |      |      |                        | 8.5  |                 | 805     |      |          | <2         |
| 2/3/2007    | 1.0                    | 6.0  | <0.1               |                    |                    |      |      |                        |      | 8.21            | 775     |      |          | <2         | 0.5                    | 6.3  | <0.1               | 7.6                | <0.01              |      |      |                        | 7.6  |                 | 805     |      |          | <2         |
| 2/4/2007    | 1.0                    | 6.3  | <0.1               | 7.3                | <0.01              | 1.2  | 8.6  | 1.2                    | 7.3  | 8.19            | 770     |      |          | <2         | 0.6                    | 6.6  | <0.1               | 4.5                | <0.01              | 0.9  | 5.4  | 0.9                    | 4.5  |                 | 790     |      |          | <2         |
| 2/5/2007    | 1.0                    | 6.1  |                    |                    |                    |      |      |                        |      | 8.22            | 775     |      |          | <2         | 0.6                    | 6.4  | <0.1               | 1.9                | <0.01              |      |      |                        | 1.9  |                 | 800     |      |          | <2         |
| 2/6/2007    | 1.0                    | 6.0  | <0.1               | 6.4                | <0.01              | 1.1  | 7.5  | 1.1                    | 6.4  | 8.24            | 760     | 468  | 154      | 2          | 0.6                    | 6.1  | <0.1               | 2.1                | <0.01              |      |      |                        | 2.1  |                 | 795     | 462  | 151      | <2         |
| 2/7/2007    | 1.0                    | 5.4  |                    |                    |                    |      |      |                        |      | 8.24            | 755     |      |          | 2          | 0.7                    | 6.0  | <0.1               | 2.8                | <0.01              |      |      |                        | 2.8  |                 | 770     |      |          | <2         |
| 2/8/2007    | 1.0                    | 5.3  | <0.1               |                    |                    |      |      |                        |      | 8.22            | 745     |      |          | <2         | 0.7                    | 5.6  | <0.1               | 3.4                | <0.01              |      |      |                        | 3.4  |                 | 770     |      |          | <2         |
| 2/9/2007    | 1.0                    | 5.3  | <0.1               |                    |                    |      |      |                        |      | 8.25            | 740     |      |          | <2         | 0.7                    | 5.6  | <0.1               | 4.4                | <0.01              |      |      |                        | 4.4  |                 | 750     |      |          | <2         |
| 2/10/2007   | 1.0                    | 5.9  | <0.1               |                    |                    |      |      |                        |      | 8.29            | 730     |      |          | <2         | 0.7                    | 5.6  | <0.1               | 4.4                | <0.01              |      |      |                        | 4.4  |                 | 740     |      |          | <2         |
| 2/11/2007   | 1.0                    | 6.0  | <0.1               | 4.6                | <0.01              | 0.8  | 5.3  | 0.8                    | 4.6  | 7.35            | 715     |      |          | 2          | 0.7                    | 5.9  | <0.1               | 4.4                | <0.01              | 0.7  | 5.2  | 0.7                    | 4.4  |                 | 755     |      |          | <2         |
| 2/12/2007   | 0.9                    | 6.2  | <0.1               |                    |                    |      |      |                        |      | 6.89            | 735     |      |          | <2         | 0.7                    | 5.9  | <0.1               | 3.2                | <0.01              |      |      |                        | 3.2  |                 | 735     |      |          | <2         |
| 2/13/2007   | 0.9                    | 6.0  | <0.1               | 7.6                | <0.01              |      |      |                        | 7.6  | 6.88            | 750     | 456  |          | <2         | 0.7                    | 5.9  | <0.1               | 5.7                | <0.01              |      |      |                        | 5.7  |                 | 750     | 444  |          | <2         |
| 2/14/2007   | 1.1                    | 6.5  | <0.1               |                    |                    |      |      |                        |      | 6.87            | 765     |      |          | <2         | 0.8                    | 6.1  | <0.1               | 8.4                | <0.01              |      |      |                        | 8.4  |                 | 765     |      |          | <2         |
| 2/15/2007   | 1.1                    | 6.6  | <0.1               | 7.4                | <0.01              | 1.9  | 9.2  | 1.9                    | 7.4  | 6.86            | 780     |      |          | <2         | 0.8                    | 6.3  | <0.1               | 8.8                | <0.01              | 1.6  | 10.4 | 1.6                    | 8.8  |                 | 780     |      |          | <2         |
| 2/16/2007   | 1.0                    | 6.5  | <0.1               |                    |                    |      |      |                        |      | 6.88            | 760     |      |          | <2         | 0.9                    | 6.3  | <0.1               | 8.1                | <0.01              |      |      |                        | 8.1  |                 | 785     |      |          | <2         |
| 2/17/2007   | 0.9                    | 6.2  |                    |                    |                    |      |      |                        |      | 6.93            | 755     |      |          | <2         | 0.8                    | 6.2  | <0.1               | 6.7                | <0.01              |      |      |                        | 6.7  |                 | 780     |      |          | <2         |
| 2/18/2007   | 0.9                    | 6.1  |                    |                    |                    |      |      |                        |      | 6.93            | 750     |      |          | <2         | 0.8                    | 6.4  | <0.1               | 7.0                | <0.01              |      |      |                        | 7.0  |                 | 810     |      |          | <2         |
| 2/19/2007   | 0.8                    | 6.2  |                    |                    |                    |      |      |                        |      | 6.91            | 760     |      |          | <2         | 0.9                    | 6.3  | <0.1               | 6.4                | <0.01              |      |      |                        | 6.4  |                 | 820     |      |          | <2         |
| 2/20/2007   | 0.8                    | 5.9  | <0.1               | 5.3                | <0.01              | 1.6  | 6.8  | 1.6                    | 5.3  | 6.89            | 760     | 472  |          | <2         | 0.9                    | 6.0  | <0.1               | 4.9                | <0.01              |      |      |                        | 4.9  |                 | 815     | 490  |          | <2         |
| 2/21/2007   | 0.9                    | 5.8  |                    |                    |                    |      |      |                        |      | 6.88            | 765     |      |          | 23         | 0.8                    | 6.0  | <0.1               | 4.5                | <0.01              |      |      |                        | 4.5  |                 | 815     |      |          | <2         |
| 2/22/2007   | 0.8                    | 5.7  | <0.1               | 6.1                | <0.01              | 1.2  | 7.3  | 1.2                    | 6.1  | 6.91            | 760     |      |          | <2         | 0.8                    | 5.8  | <0.1               | 3.8                | <0.01              | 1.2  | 5.0  | 1.2                    | 3.8  |                 | 805     |      |          | <2         |
| 2/23/2007   | 0.8                    | 5.9  | <0.1               |                    |                    |      |      |                        |      | 6.91            | 745     |      |          | <2         | 0.8                    | 5.6  | <0.1               | 3.8                | <0.01              |      |      |                        | 3.8  |                 | 800     |      |          | <2         |
| 2/24/2007   | 0.8                    | 6.0  |                    |                    |                    |      |      |                        |      | 6.92            | 750     |      |          | <2         | 0.8                    | 5.5  | <0.1               | 3.7                | <0.01              |      |      |                        | 3.7  |                 | 795     |      |          | <2         |
| 2/25/2007   | 0.6                    | 6.0  | <0.1               | 3.4                | <0.01              |      |      |                        | 3.4  | 6.93            | 760     |      |          | 8          | 0.8                    | 5.6  | <0.1               | 3.2                | <0.01              |      |      |                        | 3.2  |                 | 785     |      |          | <2         |
| 2/26/2007   | 0.7                    | 6.0  | <0.1               |                    |                    |      |      |                        |      | 6.92            | 760     |      |          | <2         | 0.9                    | 6.5  | <0.1               | 2.1                | <0.01              |      |      |                        | 2.1  |                 | 770     |      |          | <2         |
| 2/27/2007   | 0.8                    | 6.3  | <0.1               | 6.6                | <0.01              | 2.0  | 8.6  | 2.0                    | 6.6  | 6.92            | 760     | 458  |          | <2         | 0.8                    | 5.9  | <0.1               | 2.4                | <0.01              | 1.4  | 3.8  | 1.4                    | 2.4  |                 | 755     | 440  |          | <2         |
| 2/28/2007   | 0.8                    | 6.6  | <0.1               |                    |                    |      |      |                        |      | 6.89            | 770     |      |          | <2         | 0.8                    | 5.7  | <0.1               | 4.0                | <0.01              |      |      |                        | 4.0  |                 | 760     |      |          | <2         |
| Average     | 0.9                    | 6.0  | <0.1               | 6.4                | <0.01              | 1.4  | 7.9  | 1.4                    | 6.4  | 7.39            | 757     | 464  | 154      | <2         | 0.7                    | 6.0  | <0.1               | 4.9                | <0.01              | 1.1  | 6.3  | 1.2                    | 4.9  |                 | 783     | 459  | 151      | <2         |
| Min         | 0.6                    | 5.3  | <0.1               | 3.4                | <0.01              | 0.8  | 5.3  | 0.8                    | 3.4  | 6.86            | 715     | 456  | 154      | <2         | 0.5                    | 5.5  | <0.1               | 1.9                | <0.01              | 0.7  | 3.8  | 0.7                    | 1.9  |                 | 735     | 440  | 151      | <2         |
| Max         | 1.1                    | 6.6  | <0.1               | 9.0                | <0.01              | 2.0  | 10.2 | 2.0                    | 9.0  | 8.29            | 780     | 472  | 154      | 23         | 0.9                    | 6.7  | <0.1               | 8.8                | 0.09               | 1.6  | 10.4 | 1.6                    | 8.8  |                 | 830     | 490  | 151      | <2         |

<sup>1</sup>Turbidity and pH are 24 Hour averages of continuous monitoring

Recycled water produced by RP-1 and RP-4 for recharge shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:

- The turbidity of the filter effluent shall not exceed any of the following:
  - Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
  - 5 NTU more than 5 percent of the time in any 24-hour period; and
  - 10 NTU at any time.
- The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
- The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period prior to spreading.
- No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

The Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) concentration of the recycled water used for recharge shall not exceed a 12-month running average concentration limit of 550 mg/L and 8 mg/L, respectively.

The recycled water used for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall not contain constituent concentrations that exceed the following limitations:

- A total nitrogen concentration of 10 mg/L;
- The sum of nitrite, organic, and ammonia nitrogen shall not exceed 5 mg/L as nitrogen; and
- The nitrite level shall not exceed 1 mg/L as nitrogen.

The pH of recycled water for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall at all times be within the range of 6 to 9 pH units.

For the first year of operation after project start-up, the weekly average total organic carbon (TOC) concentration of the filtered wastewater shall not exceed 16 mg/L.

**Bold signifies an exceedance of a limit in the Order.**

**Table 2-3**  
**Results of Daily Recycled Water Monitoring for March 2007: Turbidity, TOC, Ammonia-N, Nitrate-N, Nitrite-N, TKN, TN, TKN+Nitrite, TIN, pH, EC, TDS, Hardness, and Coliform**

| Date        | RP1 Effluent           |      |                    |                    |                    |      |      |                       |      |                 |         |      |               |          | RP4 Effluent           |          |                    |                    |                    |      |      |                       |      |                 |         |      |          |               |    |  |
|-------------|------------------------|------|--------------------|--------------------|--------------------|------|------|-----------------------|------|-----------------|---------|------|---------------|----------|------------------------|----------|--------------------|--------------------|--------------------|------|------|-----------------------|------|-----------------|---------|------|----------|---------------|----|--|
|             | Turbidity <sup>2</sup> | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN+N <sub>2</sub> -N | TIN  | pH <sup>1</sup> | EC      | TDS  | Hardness      | Coliform | Turbidity <sup>2</sup> | TOC      | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN-N <sub>2</sub> -N | TIN  | pH <sup>1</sup> | EC      | TDS  | Hardness | Coliform      |    |  |
|             | NTU                    | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                  | mg/L |                 | µmho/cm | mg/L | mg/L          | MPN      | NTU                    | mg/L     | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                  | mg/L |                 | µmho/cm | mg/L | mg/L     | MPN           |    |  |
| Order Limit | 2, 5, 10               | 16   | 1                  |                    |                    | 10   |      | 5                     | 8    | 6<pH<9          |         | 550  | 2, 2; 23; 240 |          |                        | 2, 5, 10 | 16                 | 1                  |                    |      | 10   |                       | 5    | 8               | 6<pH<9  |      | 550      | 2, 2; 23; 240 |    |  |
| 3/1/2007    | 0.9                    | 6.3  | <0.1               | 7.3                | <0.01              | 1.8  | 9.1  | 1.8                   | 7.3  | 6.89            | 775     |      |               | <2       | 0.8                    | 5        | <0.1               | 4.2                | <0.01              | 1.8  | 5.9  | 1.8                   | 4.2  | 7.4             | 785     |      |          |               | <2 |  |
| 3/2/2007    | 0.9                    | 5.8  |                    |                    |                    |      |      |                       |      | 6.88            | 755     |      |               | <2       | 0.8                    | 6        | <0.1               | 3.3                | <0.01              |      |      |                       | 3.3  | 7.5             | 805     |      |          |               | <2 |  |
| 3/3/2007    | 0.9                    | 6.0  |                    |                    |                    |      |      |                       |      | 6.90            | 750     |      |               | <2       | 0.7                    | 6        | <0.1               | 3.0                | <0.01              |      |      |                       | 3.0  | 7.5             | 815     |      |          |               | <2 |  |
| 3/4/2007    | 0.9                    | 6.1  | <0.1               | 6.0                | <0.01              | 1.6  | 7.6  | 1.6                   | 6.0  | 6.89            | 745     |      |               | 2        | 0.7                    | 6        | <0.1               | 2.6                | <0.01              | 1.2  | 3.8  | 1.2                   | 2.6  | 7.4             | 830     |      |          |               | <2 |  |
| 3/5/2007    | 0.9                    | 6.2  |                    |                    |                    |      |      |                       |      | 6.89            | 755     |      |               | 2        | 0.8                    | 6        | <0.1               | 2.0                | <0.01              |      |      |                       | 2.0  | 7.5             | 820     |      |          |               | <2 |  |
| 3/6/2007    | 1.0                    | 5.9  | <0.1               | 6.4                | <0.01              | 1.9  | 8.3  | 1.9                   | 6.4  | 6.91            | 755     | 462  | 149           | 2        | 0.9                    | 6        | <0.1               | 1.6                | <0.01              |      |      |                       | 1.6  | 7.4             | 810     | 474  | 142      |               | <2 |  |
| 3/7/2007    | 1.0                    | 5.8  |                    |                    |                    |      |      |                       |      | 6.90            | 750     |      |               | QC       | 0.8                    | 6        | <0.1               | 2.1                | <0.01              |      |      |                       | 2.1  | 7.4             | 805     |      |          |               | QC |  |
| 3/8/2007    | 1.0                    | 5.8  | <0.1               | 7.8                | <0.01              |      |      |                       | 7.8  | 6.91            | 760     |      |               | <2       | 0.9                    | 6        | <0.1               | 2.8                | <0.01              |      |      |                       | 2.8  | 7.4             | 815     |      |          |               | <2 |  |
| 3/9/2007    | 0.9                    | 6.0  | <0.1               |                    |                    |      |      |                       |      | 6.90            | 760     |      |               | <2       | 1.0                    | 6        | <0.1               | 2.4                | <0.01              |      |      |                       | 2.4  | 7.4             | 805     |      |          |               | <2 |  |
| 3/10/2007   | 1.0                    | 6.4  | 0.1                |                    |                    |      |      |                       |      | 6.91            | 755     |      |               | <2       | 1.0                    | 6        | <0.1               | 2.1                | <0.01              |      |      |                       | 2.1  | 7.4             | 795     |      |          |               | <2 |  |
| 3/11/2007   | 1.0                    | 6.6  | <0.1               | 6.0                | <0.01              | 1.6  | 7.6  | 1.6                   | 6.0  | 6.92            | 775     |      |               | 2        | 0.8                    | 6        | <0.1               | 2.3                | <0.01              | 1.0  | 3.3  | 1.0                   | 2.3  | 7.4             | 830     |      |          |               | <2 |  |
| 3/12/2007   | 1.0                    | 6.1  | <0.1               |                    |                    |      |      |                       |      | 6.92            | 770     |      |               | 4        | 0.9                    | 6        | <0.1               | 1.7                | <0.01              |      |      |                       | 1.7  | 7.5             | 825     |      |          |               | <2 |  |
| 3/13/2007   | 1.0                    | 6.2  | <0.1               | 6.0                | <0.01              |      |      |                       | 6.0  | 6.95            | 765     | 478  |               | <2       | 0.8                    | 6        | <0.1               | 1.9                | <0.01              |      |      |                       | 1.9  | 7.4             | 825     | 488  |          |               | <2 |  |
| 3/14/2007   | 1.0                    | 6.6  | <0.1               |                    |                    |      |      |                       |      | 6.93            | 770     |      |               | <2       | 0.8                    | 6        | <0.1               | 3.4                | <0.01              |      |      |                       | 3.4  | 7.4             | 825     |      |          |               | <2 |  |
| 3/15/2007   | 1.0                    | 6.1  | <0.1               | 5.4                | <0.01              | 1.1  | 6.5  | 1.1                   | 5.4  | 6.97            | 760     |      |               | 2        | 0.8                    | 6        | <0.1               | 3.1                | <0.01              | 1.0  | 4.1  | 1.0                   | 3.1  | 7.4             | 825     |      | 2        |               | <2 |  |
| 3/16/2007   | 1.2                    |      |                    |                    |                    |      |      |                       |      | 7.30            |         |      |               | <2       | 0.8                    | 6        | <0.1               | 2.6                | <0.01              |      |      |                       | 2.6  | 7.3             | 815     |      |          |               | <2 |  |
| 3/17/2007   | 1.0                    | 6.4  |                    |                    |                    |      |      |                       |      | 7.11            | 765     |      |               | <2       | 0.9                    | 6        | <0.1               | 2.7                | <0.01              |      |      |                       | 2.7  | 7.4             | 820     |      |          |               | <2 |  |
| 3/18/2007   | 0.9                    | 6.4  | <0.1               | 7.5                | <0.01              | 1.3  | 8.8  | 1.3                   | 7.5  | 6.94            | 775     |      |               | 2        | 0.9                    | 6        | <0.1               | 3.2                | <0.01              | 0.8  | 3.9  | 0.8                   | 3.2  | 7.4             | 820     |      |          |               | <2 |  |
| 3/19/2007   | 0.8                    | 6.1  |                    |                    |                    |      |      |                       |      | 6.94            | 775     |      |               | 2        | 0.8                    | 6        | <0.1               | 3.1                | <0.01              |      |      |                       | 3.1  | 7.4             | 835     |      |          |               | <2 |  |
| 3/20/2007   | 0.8                    | 5.7  | <0.1               | 6.8                | <0.01              | 1.4  | 8.2  | 1.4                   | 6.8  | 6.92            | 780     | 476  |               | <2       | 0.9                    | 6        | <0.1               | 3.6                | <0.01              |      |      |                       | 3.6  | 7.2             | 825     | 484  |          |               | <2 |  |
| 3/21/2007   | 0.9                    | 5.6  |                    |                    |                    |      |      |                       |      | 6.88            | 780     |      |               | <2       | 0.9                    | 6        | <0.1               | 3.8                | <0.01              |      |      |                       | 3.8  | 7.3             | 815     |      | 2        |               | <2 |  |
| 3/22/2007   | 0.9                    | 5.6  | <0.1               | 8.0                | <0.01              |      |      |                       | 8.0  | 6.89            | 765     |      |               | <2       | 0.9                    | 6        | <0.1               | 3.7                | <0.01              |      |      |                       | 3.7  | 7.4             | 800     |      |          |               | <2 |  |
| 3/23/2007   | 1.0                    | 5.7  |                    |                    |                    |      |      |                       |      | 6.92            | 775     |      |               | 2        | 0.9                    | 6        | <0.1               | 2.3                | <0.01              |      |      |                       | 2.3  | 7.3             | 785     |      |          |               | <2 |  |
| 3/24/2007   | 1.0                    | 5.9  |                    |                    |                    |      |      |                       |      | 6.93            | 780     |      |               | <2       | 0.9                    | 6        | <0.1               | 2.0                | <0.01              |      |      |                       | 2.0  | 7.3             | 775     |      |          |               | <2 |  |
| 3/25/2007   | 1.0                    | 5.9  | <0.1               | 7.5                | <0.01              | 1.0  | 8.5  | 1.0                   | 7.5  | 6.95            | 770     |      |               | <2       | 0.6                    | 6        | <0.1               | 1.8                | <0.01              | 1.0  | 2.8  | 1.0                   | 1.8  | 7.3             | 810     |      |          |               | <2 |  |
| 3/26/2007   | 1.0                    | 6.0  |                    |                    |                    |      |      |                       |      | 7.00            | 770     |      |               | <2       | 0.2                    | 6        | <0.1               | 1.6                | <0.01              |      |      |                       | 1.6  | 7.4             | 810     |      |          |               | <2 |  |
| 3/27/2007   | 0.9                    | 5.9  | <0.1               | 6.9                | <0.01              |      |      |                       | 6.9  | 6.98            | 775     | 476  |               | 2        | 0.3                    | 6        | <0.1               | 2.6                | <0.01              |      |      |                       | 2.6  | 7.5             | 805     | 474  |          |               | <2 |  |
| 3/28/2007   | 0.9                    | 6.1  |                    |                    |                    |      |      |                       |      | 6.94            | 780     |      |               | <2       | 0.3                    | 6        | <0.1               | 4.3                | <0.01              |      |      |                       | 4.3  | 7.5             | 800     |      |          |               | <2 |  |
| 3/29/2007   | 1.0                    | 6.6  | <0.1               | 7.0                | <0.01              | 2.1  | 9.1  | 2.1                   | 7.0  | 6.91            | 790     |      |               | <2       | 0.3                    | 6        | <0.1               | 4.2                | <0.01              | 1.6  | 5.8  | 1.6                   | 4.2  | 7.4             | 810     |      |          |               | <2 |  |
| 3/30/2007   | 1.0                    | 6.2  |                    |                    |                    |      |      |                       |      | 6.92            | 780     |      |               | LA       | 0.3                    | 6        | <0.1               | 3.7                | <0.01              |      |      |                       | 3.7  | 7.4             | 805     |      |          |               | <2 |  |
| 3/31/2007   | 0.9                    | 6.1  |                    |                    |                    |      |      |                       |      | 6.93            | 775     |      |               | <2       | 0.3                    | 6        | <0.1               | 3.1                | <0.01              |      |      |                       | 3.1  | 7.3             | 795     |      |          |               | <2 |  |
| Average     | 0.9                    | 6.1  | <0.1               | 6.8                | <0.01              | 1.5  | 8.2  | 1.5                   | 6.8  | 6.94            | 768     | 473  |               | <2       | 0.7                    | 6.1      | <0.1               | 2.8                | <0.01              | 1.2  | 4.2  | 1.2                   | 2.8  | 7.4             | 811     | 480  |          |               | <2 |  |
| Min         | 0.8                    | 5.6  | <0.1               | 5.4                | <0.01              | 1.0  | 6.5  | 1.0                   | 5.4  | 6.88            | 745     | 462  |               | <2       | 0.2                    | 5.5      | <0.1               | 1.6                | <0.01              | 0.8  | 2.8  | 0.8                   | 1.6  | 7.2             | 775     | 474  |          |               | <2 |  |
| Max         | 1.2                    | 6.6  | 0.1                | 8.0                | <0.01              | 2.1  | 9.1  | 2.1                   | 8.0  | 7.30            | 790     | 478  |               | 4        | 1.0                    | 6.5      | <0.1               | 4.3                | <0.01              | 1.8  | 5.9  | 1.8                   | 4.3  | 7.5             | 835     | 488  |          |               | 2  |  |

<sup>1</sup>Turbidity and pH are 24 Hour averages of continuous monitoring

Recycled water produced by RP-1 and RP-4 for recharge shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:

- The turbidity of the filter effluent shall not exceed any of the following:
  - Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
  - 5 NTU more than 5 percent of the time in any 24-hour period; and
  - 10 NTU at any time.
- The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
- The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period prior to spreading.
- No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

The Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) concentration of the recycled water used for recharge shall not exceed a 12-month running average concentration limit of 550 mg/L and 8 mg/L, respectively.

The recycled water used for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall not contain constituent concentrations that exceed the following limitations:

- A total nitrogen concentration of 10 mg/L;
- The sum of nitrite, organic, and ammonia nitrogen shall not exceed 5 mg/L as nitrogen; and
- The nitrite level shall not exceed 1 mg/L as nitrogen.

The pH of recycled water for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall at all times be within the range of 6 to 9 pH units.

For the first year of operation after project start-up, the weekly average total organic carbon (TOC) concentration of the filtered wastewater shall not exceed 16 mg/L.

ND: Not detected above method reporting limit

**Bold signifies an exceedance of a limit in the Order.**

QC = Quality Control Failure, no data reported.

LA = lab accident

**Table 2-4**  
**Results of Running Quarterly Average Concentration from Each Quarter:**  
**Turbidity, TOC, Ammonia-N, Nitrate-N, Nitrite-N, TKN, TN, TKN+Nitrite, TIN, pH, EC, TDS, Hardness, and Coliform**

| Date                   | RP1 Effluent |      |                    |                    |                    |      |      |                            |      |        |         |      |          |              | RP4 Effluent |      |                    |                    |                    |      |      |                            |      |        |         |      |          |              |
|------------------------|--------------|------|--------------------|--------------------|--------------------|------|------|----------------------------|------|--------|---------|------|----------|--------------|--------------|------|--------------------|--------------------|--------------------|------|------|----------------------------|------|--------|---------|------|----------|--------------|
|                        | Turbidity    | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN-<br>NO <sub>2</sub> -N | TIN  | pH     | EC      | TDS  | Hardness | Coliform     | Turbidity    | TOC  | NH <sub>3</sub> -N | NO <sub>3</sub> -N | NO <sub>2</sub> -N | TKN  | TN   | TKN-<br>NO <sub>2</sub> -N | TIN  | pH     | EC      | TDS  | Hardness | Coliform     |
|                        | NTU          | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                       | mg/L |        | µmho/cm | mg/L | mg/L     | MPN          | NTU          | mg/L | mg/L               | mg/L               | mg/L               | mg/L | mg/L | mg/L                       | mg/L |        | µmho/cm | mg/L | mg/L     | MPN          |
| Order Limit            | 2, 5, 10     | 16   |                    |                    | 1                  |      | 10   | 5                          | 8    | 6<pH<9 |         | 550  |          | 2.2, 23, 240 | 2, 5, 10     | 16   |                    |                    | 1                  |      | 10   | 5                          | 8    | 6<pH<9 |         | 550  |          | 2.2, 23, 240 |
| <b>Average 1Q06</b>    | 1.0          | 8.2  | 0.1                | 10.7               | 0.04               | 1.5  | 12.4 | 1.6                        | 10.8 | 7.52   | 730     | 465  | 134      | 2            | 0.6          | 9.5  | 0.2                | 1.0                | 0.09               | 1.1  | 2.1  | 1.1                        | 1.1  | 6.88   | 774     | 456  | 129      | 2            |
| Min                    | 0.6          | 4.1  | 0.1                | 7.8                | 0.01               | 1.1  | 10.0 | 1.1                        | 8.0  | 7.33   | 180     | 424  | 127      | 2            | 0.1          | 4.5  | 0.1                | 0.1                | 0.01               | 0.6  | 0.8  | 0.6                        | <0.2 | 6.70   | 670     | 400  | 120      | 2            |
| Max                    | 1.3          | 11.3 | 0.4                | 12.9               | 0.12               | 2.0  | 14.9 | 2.0                        | 13.0 | 7.65   | 800     | 494  | 145      | 4            | 1.6          | 15.3 | 2.1                | 3.2                | 0.16               | 2.9  | 4.6  | 2.9                        | 5.1  | 7.00   | 900     | 512  | 140      | 2            |
| <b>Average 2Q06</b>    | 0.9          | 6.3  | 0.1                | 8.3                | 0.04               | 1.0  | 8.9  | 1.0                        | 8.2  | 7.73   | 704     | 446  | 123      | 2            | 0.8          | 7.9  | 0.1                | 4.6                | <0.01              | 1.1  | 5.8  | 1.1                        | 4.5  | 7.08   | 703     | 464  | 112      | 4            |
| Min                    | 0.7          | 5.3  | 0.1                | 1.2                | 0.03               | 0.1  | 3.0  | 0.1                        | 1.3  | 7.20   | 650     | 432  | 122      | 2            | 0.3          | 6.0  | 0.1                | 0.2                | <0.01              | 0.1  | 1.1  | 0.1                        | 0.1  | 6.80   | 645     | 404  | 104      | 2            |
| Max                    | 1.4          | 9.1  | 0.4                | 12.7               | 0.05               | 1.8  | 11.9 | 1.8                        | 11.4 | 7.90   | 740     | 460  | 125      | 4            | 2.7          | 11.7 | 0.8                | 17.2               | <0.01              | 1.8  | 17.2 | 1.8                        | 17.3 | 7.30   | 775     | 788  | 121      | 13           |
| <b>Average 3Q06</b>    | 0.6          | 5.5  | 0.2                | 6.2                | 0.11               | 1.5  | 7.8  | 1.5                        | 6.3  | 7.98   | 711     | 444  | 133      | 2            | 0.5          | 6.4  | 0.1                | 1.9                | <0.01              | 1.2  | 3.1  | 1.2                        | 1.9  | 7.42   | 723     | 448  | 113      | <2           |
| Min                    | 0.4          | 4.8  | 0.1                | 4.2                | 0.04               | 0.5  | 5.8  | 0.5                        | 4.5  | 7.17   | 685     | 344  | 123      | <2           | 0.2          | 5.8  | 0.1                | 0.4                | <0.01              | 0.2  | 1.4  | 0.4                        | 0.4  | 7.10   | 690     | 422  | 104      | <2           |
| Max                    | 1.1          | 7.3  | 0.3                | 8.4                | 0.23               | 2.7  | 10.6 | 2.7                        | 8.4  | 8.43   | 735     | 466  | 146      | 4            | 0.9          | 7.8  | 0.1                | 5.6                | <0.01              | 2.7  | 6.0  | 2.7                        | 5.6  | 7.60   | 760     | 462  | 121      | <2           |
| <b>Average 4Q06</b>    | 0.7          | 6.2  | 0.3                | 7.1                | <0.01              | 1.3  | 8.5  | 1.3                        | 7.2  | 8.03   | 723     | 451  | 138      | 3            | 0.6          | 6.0  | 3.3                | 3.3                | <0.01              | 1.0  | 4.0  | 1.1                        | 3.3  | 7.49   | 715     | 425  | 127      | 8            |
| Min                    | 0.4          | 4.5  | 0.1                | 3.1                | <0.01              | 0.5  | 4.3  | 0.5                        | 3.3  | 7.79   | 685     | 436  | 134      | 2            | 0.2          | 5.1  | 3.3                | 0.6                | <0.01              | 0.2  | 1.3  | 0.2                        | 0.6  | 7.30   | 675     | 408  | 126      | 2            |
| Max                    | 1.4          | 8.3  | 0.7                | 10.5               | 0.2                | 2.2  | 12.0 | 2.2                        | 10.5 | 8.26   | 830     | 548  | 146      | 8            | 1.1          | 7.1  | 3.3                | 8.5                | 0.09               | 4.8  | 9.4  | 4.9                        | 8.5  | 7.60   | 955     | 442  | 128      | 13           |
| <b>Average 1Q07</b>    | 0.9          | 6.2  | <0.1               | 7.0                | <0.01              | 1.4  | 8.4  | 1.4                        | 7.0  | 7.35   | 767     | 469  | 151      | <2           | 0.7          | 6.5  | <0.1               | 3.6                | <0.1               | 1.1  | 4.8  | 1.1                        | 3.6  | 7.39   | 789     | 466  | 143      | <2           |
| Min                    | 0.6          | 5.3  | <0.1               | 3.4                | <0.01              | 0.8  | 5.3  | 0.8                        | 3.4  | 6.44   | 715     | 456  | 149      | <2           | 0.2          | 5.5  | <0.1               | 1.4                | <0.1               | 0.6  | 2.4  | 0.6                        | 1.4  | 7.20   | 735     | 440  | 137      | <2           |
| Max                    | 1.2          | 7.6  | <0.1               | 9.0                | 0.03               | 2.1  | 10.2 | 2.1                        | 9.0  | 8.91   | 825     | 486  | 154      | 23           | 1.0          | 9.0  | <0.1               | 8.8                | 0.09               | 1.8  | 10.4 | 1.8                        | 8.8  | 7.50   | 835     | 490  | 151      | 2            |
| <b>Running Average</b> | 0.8          | 6.5  | 0.2                | 8.1                | 0.06               | 1.3  | 9.4  | 1.3                        | 8.1  | 7.81   | 717     | 451  | 132      | 2            | 0.6          | 7.5  | 1.0                | 2.7                | 0.09               | 1.1  | 3.7  | 1.1                        | 2.7  | 7.22   | 729     | 448  | 120      | 4            |
| Min                    | 0.4          | 4.1  | <0.1               | 1.2                | <0.01              | 0.1  | 3.0  | 0.1                        | 1.3  | 7.17   | 180     | 344  | 122      | <2           | 0.1          | 4.5  | <0.1               | 0.1                | <0.01              | 0.1  | 0.8  | 0.1                        | 0.1  | 6.70   | 645     | 400  | 104      | <2           |
| Max                    | 1.4          | 11.3 | 0.7                | 12.9               | 0.23               | 2.7  | 14.9 | 2.7                        | 13.0 | 8.43   | 830     | 548  | 146      | 8            | 2.7          | 15.3 | 3.3                | 17.2               | 0.16               | 4.8  | 17.2 | 4.9                        | 17.3 | 7.60   | 955     | 788  | 140      | 13           |

Recycled water produced by RP-1 and RP-4 for recharge shall at all times, be adequately oxidized, filtered, and disinfected tertiary treated wastewater and shall meet the following limitations:

- The turbidity of the filter effluent shall not exceed any of the following:
  - Average of 2 Nephelometric Turbidity Unit (NTU) within any 24-hour period;
  - 5 NTU more than 5 percent of the time in any 24-hour period; and
  - 10 NTU at any time.
- The 7-day median number of total coliform shall not exceed a Most Probable Number (MPN) of 2.2 total coliform bacteria per 100 milliliters (ml).
- The number of total coliform organism shall not exceed an MPN of 23 total coliform bacteria per 100 ml in more than one sample in any 30-day period prior to spreading.
- No total coliform sample shall exceed an MPN of 240 total coliform bacteria per 100 ml.

The Total Dissolved Solids (TDS) and Total Inorganic Nitrogen (TIN) concentration of the recycled water used for recharge shall not exceed a 12-month running average concentration limit of 550 mg/L and 8 mg/L, respectively.

The recycled water used for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall not contain constituent concentrations that exceed the following limitations:

- A total nitrogen concentration of 10 mg/L;
- The sum of nitrite, organic, and ammonia nitrogen shall not exceed 5 mg/L as nitrogen; and
- The nitrite level shall not exceed 1 mg/L as nitrogen.

The pH of recycled water for recharge, or if supplemented with diluent water, the blend of the two, prior to reaching the regional groundwater table shall at all times be within the range of 6 to 9 pH units.

For the first year of operation after project start-up, the weekly average total organic carbon (TOC) concentration of the filtered wastewater shall not exceed 16 mg/L.

**Bold signifies an exceedance of a limit in the Order.**



**Table 2-5**  
**IEUA's Agency-Wide Distribution System**  
**Total Dissolved Solids and Total Inorganic Nitrogen Analyses**

|                  | Agency-Wide Effluent TDS and TIN |              |
|------------------|----------------------------------|--------------|
|                  | Flow-weighted Average            |              |
|                  | 12-Month Running Average         |              |
|                  | Flow wt. TDS                     | Flow wt. TIN |
| Mo-Yr            | mg/L                             |              |
| Apr-06           | 476                              | 7.1          |
| May-06           | 471                              | 7.3          |
| Jun-06           | 468                              | 7.2          |
| Jul-06           | 469                              | 7.3          |
| Aug-06           | 470                              | 7.3          |
| Sep-06           | 470                              | 7.4          |
| Oct-06           | 469                              | 7.5          |
| Nov-06           | 468                              | 7.6          |
| Dec-06           | 467                              | 7.5          |
| Jan-07           | 467                              | 7.3          |
| Feb-07           | 468                              | 7.1          |
| Mar-07           | 470                              | 6.9          |
| 12-Month Average | 470                              | 7.3          |
| Minimum          | 467                              | 6.9          |
| Maximum          | 476                              | 7.6          |

Notes:

The TDS and TIN concentration of the recycled water used for recharge shall not exceed a 12-month running average concentration limit of 550 mg/L and 8 mg/L, respectively.



**Table 2-6**  
**Recycled Water Monitoring Results: Oil and Grease, Inorganic Chemicals, VOCs, SOCs,**  
**Disinfection By-Products, Notification Levels, and Radionuclides**

| Chemical                                 | Order Limit | 2Q06 Result <sup>(1)</sup> | 3Q06 Result <sup>(1)</sup> | 4Q06 Result <sup>(1)</sup> | 1Q07 Result <sup>(1)</sup> | 4-Quarter Running Average | Units | Method       |
|------------------------------------------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------|--------------|
| Oil & Grease (Total)                     |             | <2                         | <2                         | <2                         | 3                          | <2                        | mg/L  | EPA 1664     |
| Aluminum                                 | 1000        | 39                         | <25                        | <25                        | <25                        | <29                       | µg/L  | EPA 200.7    |
| Antimony                                 | 6           | <0.5                       | <0.5                       | <0.5                       | 0.7                        | <0.5                      | µg/L  | EPA 200.8    |
| Arsenic                                  | 10          | <2                         | <2                         | <2                         | <2                         | <2                        | µg/L  | EPA 200.8    |
| Asbestos by TEM - >10 microns            | 7           | <0.8                       | <1.1                       | <0.2                       | <0.2                       | <0.6                      | MFL   | ML/EPA 100.2 |
| Barium                                   | 1000        | 13                         | 14                         | 12                         | 16                         | 14                        | µg/L  | EPA 200.7    |
| Beryllium                                | 4           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 200.7    |
| Cadmium                                  | 5           | <0.25                      | <0.25                      | <0.25                      | <0.25                      | <0.25                     | µg/L  | EPA 200.7    |
| Chromium                                 | 50          | 0.6                        | 1.7                        | 1.1                        | 3.1                        | 1.6                       | µg/L  | EPA 200.7    |
| Cyanide                                  | 0.15        | <0.005                     | 0.004                      | <0.005                     | <0.005                     | <0.005                    | mg/L  | SM 4500-CN E |
| Fluoride                                 | 2           | 0.3                        | 0.3                        | 0.3                        | 0.2                        | 0.3                       | mg/L  | SM 4500-F C  |
| Mercury                                  | 2           | <0.2                       | <0.2                       | <0.2                       | <0.2                       | <0.2                      | µg/L  | EPA 245.2    |
| Nickel                                   | 100         | 2                          | 2                          | 2                          | 2                          | 2                         | µg/L  | EPA 200.7    |
| Selenium                                 | 50          | <2                         | <2                         | <2                         | 2                          | <2                        | µg/L  | EPA 200.8    |
| Thallium                                 | 2           | <1                         | <1                         | <1                         | <1                         | <1                        | µg/L  | EPA 200.8    |
| <b>Volatile Organic Compounds (VOCs)</b> |             |                            |                            |                            |                            |                           |       |              |
| Benzene                                  | 1           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Carbon tetrachloride                     | 0.5         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,2-Dichlorobenzene                      | 600         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,4-Dichlorobenzene                      | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,1-Dichloroethane                       | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.6                      | µg/L  | EPA 524.2    |
| 1,2-Dichloroethane                       | 0.5         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,1-Dichloroethylene                     | 6           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| cis-1,2-Dichloroethylene                 | 6           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| trans-1,2-Dichloroethylene               | 10          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Dichloromethane                          | 5           | 2.1                        | <0.5                       | <0.5                       | <0.5                       | <0.9                      | µg/L  | EPA 524.2    |
| 1,2-Dichloropropane                      | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,3-Dichloropropane                      | 0.5         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Ethylbenzene                             | 300         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Monochlorobenzene                        | 70          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Methyl tert-butyl ether (MTBE)           | 13          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Styrene                                  | 100         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,1,1,2-Tetrachloroethane                | 1           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Tetrachloroethylene                      | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Toluene                                  | 150         | 1.1                        | <0.5                       | <0.5                       | <0.5                       | <0.7                      | µg/L  | EPA 524.2    |
| 1,2,4-Trichlorobenzene                   | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,1,1-Trichloroethane                    | 200         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| 1,1,2-Trichloroethane                    | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Trichloroethylene                        | 5           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Trichlorofluoromethane                   | 150         | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Trichlorotrifluoroethane                 | 1200        | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |
| Vinyl chloride                           | 0.5         | <0.3                       | <0.3                       | <0.3                       | <0.3                       | <0.3                      | µg/L  | EPA 524.2    |
| m,p-Xylene <sup>(2)</sup>                | 1750        | <0.5                       | <0.5                       | <1                         | <1                         | <0.7                      | µg/L  | EPA 524.2    |
| o-Xylene <sup>(2)</sup>                  | 1750        | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 524.2    |



**Table 2-6**  
**Recycled Water Monitoring Results: Oil and Grease, Inorganic Chemicals, VOCs, SOCs,**  
**Disinfection By-Products, Notification Levels, and Radionuclides**

| Chemical                                               | Order Limit | 2Q06 Result <sup>(1)</sup> | 3Q06 Result <sup>(1)</sup> | 4Q06 Result <sup>(1)</sup> | 1Q07 Result <sup>(1)</sup> | 4-Quarter Running Average | Units | Method       |
|--------------------------------------------------------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------|--------------|
| <b>Non-Volatile Synthetic Organic Chemicals (SOCs)</b> |             |                            |                            |                            |                            |                           |       |              |
| Alachlor (Alanex)                                      | 2           | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| Atrazine                                               | 1           | <0.05                      | <0.05                      | <0.05                      | <0.05                      | <0.05                     | µg/L  | EPA 525.2    |
| Bentazon                                               | 18          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 515.4    |
| Benzo(a)pyrene                                         | 0.2         | <0.02                      | <0.02                      | <0.02                      | <0.02                      | <0.02                     | µg/L  | EPA 525.2    |
| Carbofuran (Furadan)                                   | 18          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 531.2    |
| Chlordane                                              | 0.1         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| 2,4-D                                                  | 70          | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 515.4    |
| Dalapon                                                | 200         | <1                         | 5.1                        | 3.5                        | 5.1                        | 3.5                       | µg/L  | EPA 515.4    |
| Dibromochloropropane (DBCP)                            | 0.2         | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | ML/EPA 504.1 |
| Di-(2-Ethylhexyl)adipate                               | 400         | <0.6                       | <0.6                       | <0.6                       | <0.6                       | <0.6                      | µg/L  | ML/EPA 525.2 |
| Di(2-Ethylhexyl)phthalate                              | 4           | <0.6                       | 1.1                        | <0.6                       | <0.6                       | <0.7                      | µg/L  | ML/EPA 525.2 |
| Dinoseb                                                | 7           | <0.2                       | <0.2                       | <0.2                       | <0.2                       | <0.2                      | µg/L  | ML/EPA 515.4 |
| Diquat                                                 | 20          | <0.4                       | <0.4                       | <0.4                       | <0.4                       | <0.4                      | µg/L  | ML/EPA 549.2 |
| Endothall                                              | 100         | <5                         | <5                         | <5                         | <5                         | <5                        | µg/L  | ML/EPA 548.1 |
| Endrin                                                 | 2           | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | ML/EPA 505   |
| Ethylene Dibromide (EDB)                               | 0.05        | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | ML/EPA 504.1 |
| Glyphosate                                             | 700         | <6                         | <6                         | <6                         | <6                         | <6                        | µg/L  | ML/EPA 547   |
| Heptachlor                                             | 0.01        | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | ML/EPA 505   |
| Heptachlor Epoxide                                     | 0.01        | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | ML/EPA 505   |
| Hexachlorobenzene                                      | 1           | <0.05                      | <0.05                      | <0.05                      | <0.05                      | <0.05                     | µg/L  | ML/EPA 525.2 |
| Hexachlorocyclopentadiene                              | 50          | <0.05                      | <0.05                      | <0.05                      | 0.08                       | <0.05                     | µg/L  | ML/EPA 525.2 |
| Lindane (gamma-BHC)                                    | 0.2         | <0.01                      | <0.01                      | <0.01                      | <0.01                      | <0.01                     | µg/L  | EPA 505      |
| Methoxychlor                                           | 30          | <0.05                      | <0.05                      | <0.05                      | <0.05                      | <0.05                     | µg/L  | EPA 505      |
| Molinate                                               | 20          | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | ML/EPA 525.2 |
| Oxamyl (Vydate)                                        | 50          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | ML/EPA 531.2 |
| Pentachlorophenol                                      | 1           | <0.04                      | <0.04                      | <0.04                      | <0.04                      | <0.04                     | µg/L  | ML/EPA 515.4 |
| Picloram                                               | 500         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | ML/EPA 515.4 |
| PCB 1016                                               | 0.5         | <0.07                      | <0.07                      | <0.07                      | <0.07                      | <0.07                     | µg/L  | EPA 505      |
| PCB 1221                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| PCB 1232                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| PCB 1242                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| PCB 1248                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| PCB 1254                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| PCP 1260                                               | 0.5         | <0.1                       | <0.1                       | <0.1                       | <0.1                       | <0.1                      | µg/L  | EPA 505      |
| Simazine                                               | 4           | <0.05                      | <0.05                      | <0.05                      | <0.05                      | <0.05                     | µg/L  | ML/EPA 525.2 |
| Thiobencarb                                            | 70          | <0.2                       | <0.2                       | <0.2                       | <0.2                       | <0.2                      | µg/L  | ML/EPA 525.2 |
| Toxaphene                                              | 3           | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 505      |
| 2,3,7,8-TCDD 1613 DW (subbed)                          | 30          | <5                         | <5                         | <5                         | <5                         | <5                        | pg/l  | EPA 1613     |
| 2,4,5-TP (Silvex)                                      | 50          | <0.2                       | <0.2                       | <0.2                       | <0.2                       | <0.2                      | µg/L  | ML/EPA 515.4 |
| <b>Disinfection By-products</b>                        |             |                            |                            |                            |                            |                           |       |              |
| <b>*Compliance Point Lysimeter Data</b>                |             | <b>B-25</b>                | <b>HE-25</b>               | <b>HE-25</b>               | <b>HE-25</b>               |                           |       |              |
| Total Trihalomethanes <sup>(3)</sup>                   | 80          | 1                          | 37                         | 66                         | 13                         | 29                        | µg/L  | EPA 200.7    |
| Total Haloacetic Acids <sup>(3)</sup>                  | 60          | <1                         | <1                         | <1                         | <1                         | <1                        | µg/L  | EPA 200.8    |



**Table 2-6**  
**Recycled Water Monitoring Results: Oil and Grease, Inorganic Chemicals, VOCs, SOCs,**  
**Disinfection By-Products, Notification Levels, and Radionuclides**

| Chemical                                                                             | Order Limit | 2Q06 Result <sup>(1)</sup> | 3Q06 Result <sup>(1)</sup> | 4Q06 Result <sup>(1)</sup> | 1Q07 Result <sup>(1)</sup> | 4-Quarter Running Average | Units | Method    |
|--------------------------------------------------------------------------------------|-------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|-------|-----------|
| <b>Notification Levels</b>                                                           |             |                            |                            |                            |                            |                           |       |           |
| Copper                                                                               | 1300        | 5                          | 5.4                        | 3.7                        | 3.7                        | 4.5                       | µg/L  | EPA 200.7 |
| Lead                                                                                 | 15          | <0.5                       | <0.5                       | <0.5                       | <0.5                       | <0.5                      | µg/L  | EPA 200.8 |
| <b>Radionuclides</b>                                                                 |             |                            |                            |                            |                            |                           |       |           |
| Combined Radium-226 and Radium 228                                                   | 5           | <0.453                     | <0.754                     | <0.705                     | <0.809                     | <0.680                    | pCi/l | EPA 903.0 |
| Gross Alpha particle activity (including Radium-226 but excluding Radon and Uranium) | 15          | <3                         | <3                         | <3                         | <3                         | <3                        | pCi/l | EPA 900.0 |
| Tritium (Sub)                                                                        | 20,000      | <202                       | <263                       | <178                       | 190                        | <208                      | pCi/l | EPA 906   |
| Strontium 90                                                                         | 8           | <0.871                     | 1.07                       | <0.790                     | <0.665                     | <0.849                    | pCi/l | EPA 905   |
| Gross Beta particle activity                                                         | 50          | 7.1                        | 12                         | 10                         | 8.8                        | 9.5                       | pCi/l | EPA 900.0 |
| Uranium                                                                              | 20          | <0.7                       | <0.7                       | <0.7                       | <0.7                       | <0.7                      | pCi/l | EPA 200.8 |

<sup>(1)</sup> Recycled water sample is a blend of RP1 and RP4 Effluents

<sup>(2)</sup> Limit is either for a single isomer or the sum of the isomers.

<sup>(3)</sup> The compliance point for TTHM and HAA5 is the 25-foot Lysimeter.

IS: Insufficient Sample for Analytical Test

RA: Running average will be initiated as more data is obtained.

If any quarterly result is reported as less than (<) the reporting limit for that compound, then the calculation of the 4-Quarter Running Average utilizes one half of the reporting limit for that compound for that quarter. If the calculation of the 4-Quarter Running Average is less than the reporting limit, then it is reported as less than the reporting limit

**Bold signifies an exceedance of a limit in the Order.**





**Table 2-7**  
**Recycled Water<sup>(1)</sup> Monitoring Results: Remaining Priority Pollutants and Unregulated Chemicals**

| Chemical                         | 2Q06<br>Result | 3Q06<br>Result | 4Q06<br>Result | 1Q07<br>Result | 4-Quarter<br>Running<br>Average | Units | Method    |
|----------------------------------|----------------|----------------|----------------|----------------|---------------------------------|-------|-----------|
| <b>Metals</b>                    |                |                |                |                |                                 |       |           |
| Trivalent Chromium               | <0.1           | <0.1           | 1.1            | 3.1            | <0.4                            | ug/L  | EPA 200.7 |
| <b>Volatile Organics</b>         |                |                |                |                |                                 |       |           |
| Acrolein                         | 4              | <2             | <2             | <2             | <3                              | µg/L  | EPA 624   |
| Acrylonitrile                    | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 624   |
| Bromoform                        | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |
| Dibromochloromethane             | 4.1            | 4.1            | 3.1            | 5.3            | 4.2                             | µg/L  | EPA 524.2 |
| Chloroethane                     | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |
| 2-Chloroethyl Vinyl Ether        | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 624   |
| Chloroform                       | 87             | 87             | 98             | 146            | 105                             | µg/L  | EPA 524.2 |
| Bromodichloromethane             | 25             | 25             | 21             | 33             | 26                              | µg/L  | EPA 524.2 |
| Bromomethane                     | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |
| Chloromethane                    | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |
| <b>Acid Extractibles</b>         |                |                |                |                |                                 |       |           |
| 2-Chlorophenol                   | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2,4-Dichlorophenol               | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| 2,4-Dimethylphenol               | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2-Methyl-4,6-Dinitrophenol       | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| 2,4-Dinitrophenol                | <3             | <3             | <3             | <3             | <3                              | µg/L  | EPA 625   |
| 2-Nitrophenol                    | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 4-Nitrophenol                    | <3             | <3             | <3             | <3             | <3                              | µg/L  | EPA 625   |
| 4-Chloro-3-methylphenol          | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Phenol                           | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2,4,6-Trichlorophenol            | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| <b>Base/Neutral Extractibles</b> |                |                |                |                |                                 |       |           |
| Acenaphthene                     | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Acenaphthylene                   | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Anthracene                       | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Benzidine                        | <5             | <5             | <5             | <5             | <5                              | µg/L  | EPA 625   |
| Benzo(a)anthracene               | <5             | <5             | <5             | <5             | <5                              | µg/L  | EPA 625   |
| Benzo(b)fluoranthene             | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Benzo(g,h,i)perylene             | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| Benzo(k)fluoranthene             | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Bis (2-Chloroethoxy) Methane     | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| Bis (2-Chloroethyl) Ether        | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Bis (2-Chloroisopropyl) Ether    | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 4-Bromophenyl Phenyl Ether       | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Butylbenzyl Phthalate            | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2-Chloronaphthalene              | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 4-Chlorophenyl Phenyl Ether      | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Chrysene                         | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Dibenzo(a,h)anthracene           | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 1,3-Dichlorobenzene              | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 3,3-Dichlorobenzidine            | <5             | <5             | <5             | <5             | <5                              | µg/L  | EPA 625   |
| Diethyl Phthalate                | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| Dimethyl Phthalate               | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Di-n-butyl Phthalate             | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2,4-Dinitrotoluene               | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 2,6-Dinitrotoluene               | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| Di-n-octyl Phthalate             | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| 1,2-Diphenylhydrazine            | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Fluoranthene                     | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |



**Table 2-7**  
**Recycled Water<sup>(1)</sup> Monitoring Results: Remaining Priority Pollutants and Unregulated Chemicals**

| Chemical                                      | 2Q06<br>Result | 3Q06<br>Result | 4Q06<br>Result | 1Q07<br>Result | 4-Quarter<br>Running<br>Average | Units | Method    |
|-----------------------------------------------|----------------|----------------|----------------|----------------|---------------------------------|-------|-----------|
| Fluorene                                      | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Hexachlorobutadiene                           | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Hexachlorocyclopentadiene                     | <5             | <5             | <5             | <5             | <5                              | µg/L  | EPA 625   |
| Hexachloroethane                              | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Indeno(1,2,3-cd)pyrene                        | <2             | <2             | <2             | <2             | <2                              | µg/L  | EPA 625   |
| Isophorone                                    | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Naphthalene                                   | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Nitrobenzene                                  | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| N-Nitrosodi-N-Propylamine                     | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| N-Nitrosodiphenylamine                        | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Phenanthrene                                  | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| Pyrene                                        | <1             | <1             | <1             | <1             | <1                              | µg/L  | EPA 625   |
| <b>Pesticides</b>                             |                |                |                |                |                                 |       |           |
| Aldrin                                        | <0.005         | <0.005         | <0.005         | <0.005         | <0.005                          | µg/L  | EPA 608   |
| Alpha-BHC                                     | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Beta-BHC                                      | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Delta-BHC                                     | <0.011         | <0.011         | <0.007         | <0.007         | <0.009                          | µg/L  | EPA 608   |
| 4,4' - DDT                                    | <0.02          | <0.02          | <0.02          | <0.02          | <0.02                           | µg/L  | EPA 608   |
| 4,4' - DDE                                    | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| 4,4' - DDD                                    | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Dieldrin                                      | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Endosulfan I                                  | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Endosulfan II                                 | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Endosulfan Sulfate                            | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| Endrin Aldehyde                               | <0.01          | <0.01          | <0.01          | <0.01          | <0.01                           | µg/L  | EPA 608   |
| <b>Unregulated Chemicals</b>                  |                |                |                |                |                                 |       |           |
| Boron                                         | 0.2            | 0.3            | 0.3            | 0.3            | 0.3                             | mg/L  | EPA 200.7 |
| Chromium-6                                    | <0.1           | 0.28           | 0.25           | 0.30           | 0.22                            | µg/L  | EPA 218.6 |
| Dichlorodifluoromethane                       | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |
| Ethyl tert-butyl ether (ETBE)                 | <3             | <3             | <3             | <3             | <3                              | µg/L  | EPA 524.2 |
| N-Nitroso dimethylamine (NDMA) <sup>(3)</sup> | 5.8            | 15.5           | 5.5            | 5.7            | 8.1                             | ng/l  | 1625MOD   |
| Perchlorate                                   | <4             | <4             | <4             | <4             | <4                              | µg/L  | EPA 314   |
| tert-Amyl methyl ether (TAME)                 | <3             | <3             | <3             | <3             | <3                              | µg/L  | EPA 524.2 |
| tert-Butyl alcohol (TBA)                      | <2             | <2             | 3.7            | <2             | <2.4                            | µg/L  | 524.2MOD  |
| Vanadium                                      | 5.3            | 3.8            | 3.1            | 3.3            | 3.9                             | µg/L  | EPA 200.8 |
| 1,4-Dioxane                                   | <2             | <2             | <2             | <2             | <2                              | µg/L  | 8270MOD   |
| 1,2,3-Trichloropropane                        | <0.5           | <0.5           | <0.5           | <0.5           | <0.5                            | µg/L  | EPA 524.2 |

<sup>(1)</sup>Recycled water sample is a blend of RP1 and RP4 Effluents

<sup>(2)</sup> Boron value is an average of July, August & September samples

<sup>(3)</sup> NDMA is an average of 6 sample results collected monthly from both RP1 and RP4

ND: When analytical results are below method reporting limits for all samples in an average.

DNR: Have not received laboratory data as of the date of this report.

If any quarterly result is reported as less than (<) the reporting limit for that compound, then the calculation of the 4-Quarter Running Average utilizes one half of the reporting limit for that compound for that quarter. If the calculation of the 4-Quarter Running Average is less than the reporting limit, then it is reported as less than the reporting limit

**Bold signifies an exceedance of a limit in the Order.**



**Table 2-8**  
**Recycled Water Monitoring Results: Endocrine Disrupting Chemicals & Pharmaceuticals**  
**Analyzed on an Annual Basis**

| Chemicals                                                      | Date     | RP-1/RP-4 Blend | RP-1 Effluent | RP-4 Effluent | Units | Method               |
|----------------------------------------------------------------|----------|-----------------|---------------|---------------|-------|----------------------|
| <b>Chemicals with State Notification Levels <sup>(1)</sup></b> |          |                 |               |               |       |                      |
| N-butylbenzene                                                 | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| sec-butylbenzene                                               | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| tert-butylbenzene                                              | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| Carbon disulfide                                               | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| Chlorate                                                       |          |                 |               |               | µg/L  | 300.0                |
| 2-chlorotoluene                                                | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| Diazinon                                                       |          |                 |               |               | µg/L  | 525.2                |
| 1,4-Dioxane                                                    | 2/6/2007 | <2              | --            | --            | µg/L  | Purge and Trap-GC/MS |
| Formaldehyde                                                   |          |                 |               |               | µg/L  |                      |
| Isopropylbenzene                                               | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| N-propylbenzene                                                | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| 1,2,4-trimethylbenzene                                         | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| 1,3,5-trimethylbenzene                                         | 2/6/2007 | <0.5            | --            | --            | µg/L  | 524.2                |
| <b>Nitrosoamines <sup>(1)</sup></b>                            |          |                 |               |               |       |                      |
| N-Nitrosodiethylamine (NDEA)                                   |          | NA              | NA            | NA            | ng/L  | 525                  |
| N-Nitrosopyrrolidine                                           |          | NA              | NA            | NA            | ng/L  | 525                  |
| <b>Hormones</b>                                                |          |                 |               |               |       |                      |
| Ethinyl estradiol                                              |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| 17-B estradiol                                                 |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| Estrone                                                        |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| <b>"Industrial" Endocrine Disruptors</b>                       |          |                 |               |               |       |                      |
| Bisphenol A                                                    |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| Nonylphenol and nonylphenol polyethoxylate                     |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| Octylphenol and octylphenol polyethoxylate                     |          | NA              | NA            | NA            | ng/L  | HPLC/MS-SEDC         |
| PolybromiNA                                                    |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 28                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 71                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 47                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 66                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 100                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 99                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 85                                                        |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 154                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 153                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 138                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 128                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 183                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 190                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 203                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 206                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |
| PBDE 209                                                       |          | NA              | NA            | NA            | ng/L  | 8270C SIM            |



**Table 2-8**  
**Recycled Water Monitoring Results: Endocrine Disrupting Chemicals & Pharmaceuticals**  
**Analyzed on an Annual Basis**

| Chemicals                                   | Date | RP-1/RP-4<br>Blend | RP-1<br>Effluent | RP-4<br>Effluent | Units | Method       |
|---------------------------------------------|------|--------------------|------------------|------------------|-------|--------------|
| <b>Pharmaceuticals and Other Substances</b> |      |                    |                  |                  |       |              |
| Acetaminophen                               |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Amoxicillin <sup>(3)</sup>                  |      |                    |                  |                  |       |              |
| Azithromycin <sup>(3)</sup>                 |      |                    |                  |                  |       |              |
| Caffeine                                    |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Carbamazepine                               |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Ciprofloxacin <sup>(3)</sup>                |      |                    |                  |                  |       |              |
| Ethylenediamine tetra-acetic acid<br>(EDTA) |      | NA                 | NA               | NA               |       |              |
| Gemfibrozil                                 |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Ibuprofen                                   |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Iodinated contrast media                    |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Lipitor <sup>(3)</sup>                      |      |                    |                  |                  |       |              |
| Methadone                                   |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Morphine <sup>(3)</sup>                     |      |                    |                  |                  |       |              |
| Salicylic acid                              |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |
| Triclosan                                   |      | NA                 | NA               | NA               | ng/L  | HPLC/MS-SEDC |

NA: Not analyzed, remaining annual samples for 2007 will be collected in September as per the permit.

(1) Results are a blend from the Effluent of RP-1 and RP-4

(2) Contract lab does not include carbon disulfide in method 524.2. IEUA does include carbon disulfide in method 524.2 and will conduct this analysis for future annual sampling events.

(3) Method development is being refined to enhance recovery

**Bold signifies an exceedance of a limit in the Order.**



**Table 2-9**  
**Recycled Water<sup>(1)</sup> Monitoring Results: Miscellaneous Analytes**

| Chemical            | Order Limit <sup>(2)</sup> | 2Q06<br>Results | 3Q06<br>Results | 4Q06<br>Results | 1Q07<br>Results | 4-Quarter<br>Running<br>Average | Units | Method         |
|---------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|---------------------------------|-------|----------------|
| Aluminum            | 200                        | 39              | <25             | <25             | <25             | <29                             | µg/L  | EPA 200.7      |
| Corrosivity Index   | Non-corrosive              | -0.4            | 0               | -0.3            | -0.3            | -0.3                            | SI    | SM 2330B       |
| Surfactants (MBAS)  | 0.5                        | 0.16            | 0.1             | <0.05           | 0.139           | 0.106                           | mg/L  | S 5540C/E425.1 |
| Fe                  | 300                        | 118             | 84              | 79              | DNR             | 94                              | µg/L  | EPA 200.7      |
| Mn                  | 50                         | 6               | 3               | 5               | 8               | 6                               | µg/L  | EPA 200.7      |
| Odor <sup>(3)</sup> | 3 Units                    | <b>8</b>        | 3               | <b>4</b>        | 2               | <b>4</b>                        | TON   | ML/S2150B      |
| Ag                  | 100                        | <0.25           | <0.25           | <0.25           | 0.39            | <0.28                           | µg/L  | EPA 200.7      |
| Thiobencarb         | 1                          | <0.2            | <0.2            | <0.2            | <0.2            | <0.2                            | µg/L  | EPA 525.2      |
| Zn                  | 5000                       | 29              | 43              | 31              | 38              | 35                              | µg/L  | EPA 200.7      |

<sup>(1)</sup> Recycled water sample is a blend of RP1 and RP4 Effluents

<sup>(2)</sup> Refers to Permit Table 3, Compliance Determination B.3

<sup>(3)</sup> Sample analyzed for Odor is the HE-25 Lysimeter

DNR: Laboratory did not report data prior publishing this report

With only "<" value, 1/2 the reporting limit was used to calculate and report the average, if the average value is less than the detection limit, the the detection limit was used. With more than one "<" value the reported average is calculated using the highest detection limit.

**Bold signifies an exceedance of a limit in the Order.**



**Table 2-10**  
**Diluent Water Monitoring Results: State Water Project Water\***

| Constituents                             | Units   | Jan-07 | Feb-07 | March-07 |
|------------------------------------------|---------|--------|--------|----------|
| Silica                                   | mg/L    | 13     | 14.9   | 14.5     |
| Calcium                                  | mg/L    | 20     | 21     | 22       |
| Magnesium                                | mg/L    | 12     | 15     | 14       |
| Sodium                                   | mg/L    | 48     | 62     | 58       |
| Potassium                                | mg/L    | 2.7    | 3.4    | 3.2      |
| Carbonate                                | mg/L    | 0      | 0      | 0        |
| Bicarbonate                              | mg/L    | 93     | 94     | 98       |
| Sulfate                                  | mg/L    | 34     | 39     | 44       |
| Chloride                                 | mg/L    | 67     | 95     | 86       |
| Nitrate                                  | mg/L    | 3.5    | 4      | 4.4      |
| Fluoride                                 | mg/L    | 0.08   | 0.08   | 0.11     |
| Boron                                    | mg/L    | 0.14   | --     | --       |
| Total Dissolved Solids                   | mg/L    | 247    | 301    | 295      |
| Total Hardness (as CaCO <sub>3</sub> )   | mg/L    | 100    | 112    | 114      |
| Total Alkalinity (as CaCO <sub>3</sub> ) | mg/L    | 76     | 77     | 80       |
| Free Carbon Dioxide                      | mg/L    | 1.1    | 1.4    | 2.0      |
| pH                                       |         | 8.13   | 8.06   | 7.90     |
| Electrical Conductivity                  | µmho/cm | 450    | 560    | 539      |
| Turbidity                                | NTU     | 0.7    | 1.2    | 1.7      |
| Temperature                              | C       | 10     | 8      | 11       |
| Bromide                                  | mg/L    | 0.22   | 0.31   | 0.27     |
| Total Organic Carbon                     | mg/L    | 2.76   | 3.51   | 3.96     |

\*Silverwood Lake at Devil Canyon

-- Not Tested

Source: Metropolitan Water District of Southern California

DNR: Laboratory did not report data prior publishing this report



**Table 2-11**  
**Basin and Lysimeter Water Monitoring Results for Banana Basin: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| BNA-0      | 0 ft  | 1/3/2007    | 3.16   | mg/L  |
| BNA-25     | 25 ft | 1/3/2007    | 1.17   | mg/L  |
| BNA-0      | 0 ft  | 1/9/2007    | 7.03   | mg/L  |
| BNA-25     | 25 ft | 1/9/2007    | 2.36   | mg/L  |
| BNA-0      | 0 ft  | 1/16/2007   | 4.67   | mg/L  |
| BNA-25     | 25 ft | 1/16/2007   | 1.05   | mg/L  |
| BNA-0      | 0 ft  | 2/13/2007   | 8.32   | mg/L  |
| BNA-25     | 25 ft | 2/13/2007   | 0.91   | mg/L  |
| BNA-0      | 5 ft  | 2/20/2007   | 10.7   | mg/L  |
| BNA-25     | 25 ft | 2/20/2007   | 0.95   | mg/L  |
| BNA-0      | 5 ft  | 3/6/2007    | 6.65   | mg/L  |
| BNA-25     | 25 ft | 3/6/2007    | 3.73   | mg/L  |
| BNA-0      | 5 ft  | 3/13/2007   | 6.66   | mg/L  |
| BNA-25     | 25 ft | 3/13/2007   | 3.09   | mg/L  |
| BNA-0      | 5 ft  | 3/20/2007   | 6.93   | mg/L  |
| BNA-25     | 25 ft | 3/20/2007   | 1.43   | mg/L  |
| BNA-0      | 5 ft  | 3/27/2007   | 5.66   | mg/L  |
| BNA-25     | 25 ft | 3/27/2007   | 5.72   | mg/L  |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon



**Table 2-12**  
**Basin and Lysimeter Water Monitoring Results for Hickory Basin East Cell: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| HKE-0      | 0 ft  | 2/6/2007    | 6.31   | mg/L  |
| HKE-25     | 25 ft | 2/6/2007    | 0.97   | mg/L  |
| HKE-0      | 0 ft  | 2/13/2007   | 5.75   | mg/L  |
| HKE-25     | 25 ft | 2/13/2007   | 0.71   | mg/L  |
| HKE-0      | 0 ft  | 2/20/2007   | 8.04   | mg/L  |
| HKE-25     | 25 ft | 2/20/2007   | 0.90   | mg/L  |
| HKE-0      | 0 ft  | 2/27/2007   | 1.09   | mg/L  |
| HKE-25     | 25 ft | 2/27/2007   | 0.97   | mg/L  |
| HKE-0      | 0 ft  | 3/6/2007    | 12.6   | mg/L  |
| HKE-25     | 25 ft | 3/6/2007    | 1.58   | mg/L  |
| HKE-0      | 0 ft  | 3/13/2007   | NS     | mg/L  |
| HKE-25     | 25 ft | 3/13/2007   | 1.23   | mg/L  |
| HKE-0      | 0 ft  | 3/20/2007   | NS     | mg/L  |
| HKE-25     | 25 ft | 3/20/2007   | 1.2    | mg/L  |
| HKE-0      | 0 ft  | 3/27/2007   | 6.36   | mg/L  |
| HKE-25     | 25 ft | 3/27/2007   | 1.23   | mg/L  |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon

DNR: Laboratory did not report data prior publishing this report

NS: Not Sampled





**Table 2-13**  
**Basin and Lysimeter Water Monitoring Results for Hickory Basin East Cell:**  
**Ammonia-N, Nitrite-N, Nitrate-N, TKN, and TN (mg/L)**

| Station ID | Depth | Sample Date | NH3-N | NO2-N | NO3-N | TKN  | TN  |
|------------|-------|-------------|-------|-------|-------|------|-----|
| HKE-0      | 0 ft  | 2/6/2007    | <0.1  | 0.09  | 4.9   | 2.4  | 7.4 |
| HKE-25     | 25 ft | 2/6/2007    | <0.1  | <0.01 | 5.0   | <0.5 | 5.0 |
| HKE-0      | 0 ft  | 2/13/2007   | <0.1  | <0.01 | 3.5   | 0.9  | 4.4 |
| HKE-25     | 25 ft | 2/13/2007   | <0.1  | <0.01 | 2.1   | <0.5 | 2.1 |
| HKE-0      | 0 ft  | 2/20/2007   | 0.3   | 0.04  | 0.9   | 2.0  | 2.9 |
| HKE-25     | 25 ft | 2/20/2007   | <0.1  | <0.01 | 2.2   | 0.7  | 2.9 |
| HKE-0      | 0 ft  | 2/27/2007   | <0.1  | <0.01 | 3.2   | 0.4  | 3.6 |
| HKE-25     | 25 ft | 2/27/2007   | <0.1  | <0.01 | 2.8   | 0.2  | 3   |
| HKE-0      | 0 ft  | 3/6/2007    | <0.1  | <0.01 | <0.1  | 2.0  | 2.0 |
| HKE-25     | 25 ft | 3/6/2007    | <0.1  | <0.01 | 3.0   | 0.8  | 3.8 |
| HKE-SW     | 0 ft  | 3/13/2007   |       |       | NS    |      |     |
| HKE-25     | 25 ft | 3/13/2007   | <0.1  | <0.01 | 3.1   | <0.5 | 3.1 |
| HKE-SW     | 0 ft  | 3/20/2007   |       |       | NS    |      |     |
| HKE-25     | 25 ft | 3/20/2007   | <0.1  | <0.01 | 3.2   | 0.7  | 3.9 |
| HKE-SW     | 0 ft  | 3/27/2007   | 0.4   | 0.02  | 0.4   | 1.2  | 1.6 |
| HKE-25     | 25 ft | 3/27/2007   | <0.1  | <0.01 | 3.2   | <0.5 | 3.2 |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TKN: Total Kjeldahl Nitrogen

TN: Total Nitrogen

DNR: Laboratory did not report data prior publishing this report

NS: Not Sampled



**Table 2-14**  
**Basin and Lysimeter Water Monitoring Results for Turner 1 Basin: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| TRN1-0     | 0 ft  | 1/3/2007    | 6.34   | mg/L  |
| TRN1-5     | 5 ft  | 1/3/2007    | 3.49   | mg/L  |
| TRN1-10    | 10 ft | 1/3/2007    | 2.71   | mg/L  |
| TRN1-15    | 15 ft | 1/3/2007    | 1.34   | mg/L  |
| TRN1-25    | 25 ft | 1/3/2007    | 1.49   | mg/L  |
| TRN1-35    | 35 ft | 1/3/2007    | 1.28   | mg/L  |
| TRN1-0     | 0 ft  | 1/9/2007    | 7.14   | mg/L  |
| TRN1-5     | 5 ft  | 1/9/2007    | 3.61   | mg/L  |
| TRN1-10    | 10 ft | 1/9/2007    | 2.77   | mg/L  |
| TRN1-15    | 15 ft | 1/9/2007    | 1.49   | mg/L  |
| TRN1-25    | 25 ft | 1/9/2007    | 1.67   | mg/L  |
| TRN1-35    | 35 ft | 1/9/2007    | 1.25   | mg/L  |
| TRN1-0     | 0 ft  | 1/16/2007   | 7.12   | mg/L  |
| TRN1-5     | 5 ft  | 1/16/2007   | 3.75   | mg/L  |
| TRN1-10    | 10 ft | 1/16/2007   | 2.87   | mg/L  |
| TRN1-15    | 15 ft | 1/16/2007   | 1.58   | mg/L  |
| TRN1-25    | 25 ft | 1/16/2007   | 1.75   | mg/L  |
| TRN1-35    | 35 ft | 1/16/2007   | 2.31   | mg/L  |
| TRN1-0     | 0 ft  | 1/23/2007   | 6.63   | mg/L  |
| TRN1-5     | 5 ft  | 1/23/2007   | 3.82   | mg/L  |
| TRN1-10    | 10 ft | 1/23/2007   | 3.08   | mg/L  |
| TRN1-15    | 15 ft | 1/23/2007   | 2.26   | mg/L  |
| TRN1-25    | 25 ft | 1/23/2007   | 1.99   | mg/L  |
| TRN1-35    | 35 ft | 1/23/2007   | 1.21   | mg/L  |
| TRN1-0     | 0 ft  | 1/30/2007   | 5.73   | mg/L  |
| TRN1-5     | 5 ft  | 1/30/2007   | 3.68   | mg/L  |
| TRN1-10    | 10 ft | 1/30/2007   | 2.90   | mg/L  |
| TRN1-15    | 15 ft | 1/30/2007   | 2.27   | mg/L  |
| TRN1-25    | 25 ft | 1/30/2007   | 1.72   | mg/L  |
| TRN1-35    | 35 ft | 1/30/2007   | 1.07   | mg/L  |
| TRN1-0     | 0 ft  | 2/6/2007    | 5.88   | mg/L  |
| TRN1-5     | 5 ft  | 2/6/2007    | 3.34   | mg/L  |
| TRN1-10    | 10 ft | 2/6/2007    | 2.82   | mg/L  |
| TRN1-15    | 15 ft | 2/6/2007    | 1.57   | mg/L  |
| TRN1-25    | 25 ft | 2/6/2007    | 1.91   | mg/L  |
| TRN1-35    | 35 ft | 2/6/2007    | 2.20   | mg/L  |
| TRN1-0     | 0 ft  | 2/13/2007   | 5.34   | mg/L  |
| TRN1-5     | 5 ft  | 2/13/2007   | 3.15   | mg/L  |
| TRN1-10    | 10 ft | 2/13/2007   | 2.76   | mg/L  |
| TRN1-15    | 15 ft | 2/13/2007   | 1.67   | mg/L  |
| TRN1-25    | 25 ft | 2/13/2007   | 1.87   | mg/L  |
| TRN1-35    | 35 ft | 2/13/2007   | 0.99   | mg/L  |
| TRN1-0     | 0 ft  | 2/20/2007   | 5.72   | mg/L  |
| TRN1-5     | 5 ft  | 2/20/2007   | 3.12   | mg/L  |
| TRN1-10    | 10 ft | 2/20/2007   | 2.92   | mg/L  |
| TRN1-15    | 15 ft | 2/20/2007   | 1.65   | mg/L  |
| TRN1-25    | 25 ft | 2/20/2007   | 1.93   | mg/L  |
| TRN1-35    | 35 ft | 2/20/2007   | 1.07   | mg/L  |



**Table 2-14**  
**Basin and Lysimeter Water Monitoring Results for Turner 1 Basin: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| TRN1-0     | 0 ft  | 3/6/2007    | 5.54   | mg/L  |
| TRN1-5     | 5 ft  | 3/6/2007    | 3.23   | mg/L  |
| TRN1-10    | 10 ft | 3/6/2007    | 2.77   | mg/L  |
| TRN1-15    | 15 ft | 3/6/2007    | 2.61   | mg/L  |
| TRN1-25    | 25 ft | 3/6/2007    | 2.04   | mg/L  |
| TRN1-35    | 35 ft | 3/6/2007    | 3.65   | mg/L  |
| TRN1-0     | 0 ft  | 3/13/2007   | 6.37   | mg/L  |
| TRN1-5     | 5 ft  | 3/13/2007   | 3.28   | mg/L  |
| TRN1-10    | 10 ft | 3/13/2007   | 2.71   | mg/L  |
| TRN1-15    | 15 ft | 3/13/2007   | 1.78   | mg/L  |
| TRN1-25    | 25 ft | 3/13/2007   | 2.05   | mg/L  |
| TRN1-35    | 35 ft | 3/13/2007   | 2.70   | mg/L  |
| TRN1-0     | 0 ft  | 3/20/2007   | 6.86   | mg/L  |
| TRN1-5     | 5 ft  | 3/20/2007   | 3.06   | mg/L  |
| TRN1-10    | 10 ft | 3/20/2007   | 2.63   | mg/L  |
| TRN1-15    | 15 ft | 3/20/2007   | 2.37   | mg/L  |
| TRN1-25    | 25 ft | 3/20/2007   | 2.07   | mg/L  |
| TRN1-35    | 35 ft | 3/20/2007   | 2.13   | mg/L  |
| TRN1-0     | 0 ft  | 3/27/2007   | 6.75   | mg/L  |
| TRN1-5     | 5 ft  | 3/27/2007   | 3.23   | mg/L  |
| TRN1-10    | 10 ft | 3/27/2007   | 2.73   | mg/L  |
| TRN1-15    | 15 ft | 3/27/2007   | 3.00   | mg/L  |
| TRN1-25    | 25 ft | 3/27/2007   | 1.95   | mg/L  |
| TRN1-35    | 35 ft | 3/27/2007   | 3.32   | mg/L  |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon

IV: Insufficient volume for analysis



**Table 2-15**  
**Basin and Lysimeter Water Monitoring Results for Turner 1 Basin:**  
**Ammonia-N, Nitrite-N, Nitrate-N, TKN, and TN (mg/L)**

| Station ID | Depth | Sample Date | NH3-N | NO2-N | NO3-N | TKN  | TN   |
|------------|-------|-------------|-------|-------|-------|------|------|
| TRN1-0     | 0 ft  | 1/3/2007    | <0.1  | <0.01 | 3.6   | 1.4  | 5.1  |
| TRN1-5     | 5 ft  | 1/3/2007    | 0.1   | <0.01 | 2.0   | <0.5 | 2.4  |
| TRN1-10    | 10 ft | 1/3/2007    | <0.1  | 0.02  | 0.5   | <0.5 | 0.5  |
| TRN1-15    | 15 ft | 1/3/2007    | <0.1  | IV    | IV    | <0.5 | IDC  |
| TRN1-25    | 25 ft | 1/3/2007    | <0.1  | <0.01 | 0.3   | <0.5 | <0.5 |
| TRN1-35    | 35 ft | 1/3/2007    | 0.6   | IV    | IV    | <0.5 | IDC  |
| TRN1-0     | 0 ft  | 1/9/2007    | <0.1  | <0.01 | 3.0   | 2.0  | 5.1  |
| TRN1-5     | 5 ft  | 1/9/2007    | <0.1  | <0.01 | 3.2   | 1.3  | 4.5  |
| TRN1-10    | 10 ft | 1/9/2007    | 0.2   | 0.02  | 0.7   | <0.5 | 1.1  |
| TRN1-15    | 15 ft | 1/9/2007    | <0.1  | IV    | IV    | 0.5  | IDC  |
| TRN1-25    | 25 ft | 1/9/2007    | <0.1  | <0.01 | 0.3   | 0.6  | 0.9  |
| TRN1-35    | 35 ft | 1/9/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 1/16/2007   | 0.2   | <0.01 | 2.7   | 1.8  | 4.5  |
| TRN1-5     | 5 ft  | 1/16/2007   | 0.1   | <0.01 | 3.5   | 0.8  | 4.3  |
| TRN1-10    | 10 ft | 1/16/2007   | 0.2   | 0.03  | 0.6   | 0.6  | 1.3  |
| TRN1-15    | 15 ft | 1/16/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-25    | 25 ft | 1/16/2007   | 0.2   | <0.01 | 0.2   | 0.6  | 0.8  |
| TRN1-35    | 35 ft | 1/16/2007   | 0.2   | IV    | IV    | <0.5 | IDC  |
| TRN1-0     | 0 ft  | 1/23/2007   | <0.1  | <0.01 | 2.3   | 1.1  | 3.4  |
| TRN1-5     | 5 ft  | 1/23/2007   | <0.1  | <0.01 | 3.1   | 0.6  | 3.7  |
| TRN1-10    | 10 ft | 1/23/2007   | <0.1  | 0.02  | 0.8   | <0.5 | 1.1  |
| TRN1-15    | 15 ft | 1/23/2007   | <0.1  | IV    | IV    | <0.5 | IDC  |
| TRN1-25    | 25 ft | 1/23/2007   | <0.1  | <0.01 | 0.4   | <0.5 | 0.4  |
| TRN1-35    | 35 ft | 1/23/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 1/30/2007   | <0.1  | <0.01 | 2.7   | 2.4  | 5.1  |
| TRN1-5     | 5 ft  | 1/30/2007   | <0.1  | <0.01 | 2.3   | <0.5 | 2.7  |
| TRN1-10    | 10 ft | 1/30/2007   | <0.1  | 0.02  | 0.8   | <0.5 | 1.2  |
| TRN1-15    | 15 ft | 1/30/2007   | <0.1  | IV    | IV    | <0.5 | IDC  |
| TRN1-25    | 25 ft | 1/30/2007   | <0.1  | <0.01 | 0.3   | <0.5 | 0.3  |
| TRN1-35    | 35 ft | 1/30/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 2/6/2007    | 0.2   | <0.01 | 3.9   | 1.2  | 5.1  |
| TRN1-5     | 5 ft  | 2/6/2007    | <0.1  | <0.01 | 2.1   | <0.5 | 2.5  |
| TRN1-10    | 10 ft | 2/6/2007    | <0.1  | 0.03  | 0.6   | <0.5 | 0.9  |
| TRN1-15    | 15 ft | 2/6/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN1-25    | 25 ft | 2/6/2007    | <0.1  | <0.01 | 0.3   | <0.5 | <0.6 |
| TRN1-35    | 35 ft | 2/6/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 2/13/2007   | 0.2   | 0.03  | 3.3   | 1.8  | 5.1  |
| TRN1-5     | 5 ft  | 2/13/2007   | <0.1  | <0.01 | 1.7   | <0.5 | 2.1  |
| TRN1-10    | 10 ft | 2/13/2007   | <0.1  | 0.03  | 0.6   | <0.5 | 0.9  |
| TRN1-15    | 15 ft | 2/13/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-25    | 25 ft | 2/13/2007   | <0.1  | <0.01 | 0.3   | <0.5 | <0.6 |
| TRN1-35    | 35 ft | 2/13/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 2/20/2007   | 0.3   | 0.03  | 3.2   | 2.0  | 5.2  |
| TRN1-5     | 5 ft  | 2/20/2007   | <0.1  | <0.01 | 1.1   | 1.0  | 2.1  |
| TRN1-10    | 10 ft | 2/20/2007   | <0.1  | 0.02  | 0.4   | 0.6  | 1.0  |
| TRN1-15    | 15 ft | 2/20/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-25    | 25 ft | 2/20/2007   | <0.1  | <0.01 | 0.2   | <0.5 | 0.2  |
| TRN1-35    | 35 ft | 2/20/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN1-0     | 0 ft  | 3/6/2007    | <0.1  | 0.03  | 3.7   | 1.6  | 5.3  |
| TRN1-5     | 5 ft  | 3/6/2007    | <0.1  | <0.01 | 0.9   | 1.0  | 1.9  |
| TRN1-10    | 10 ft | 3/6/2007    | <0.1  | <0.01 | 0.5   | 0.7  | 1.2  |
| TRN1-15    | 15 ft | 3/6/2007    | <0.1  | <0.01 | 0.7   | 0.6  | 1.3  |
| TRN1-25    | 25 ft | 3/6/2007    | <0.1  | <0.01 | 0.1   | 0.5  | 0.6  |
| TRN1-35    | 35 ft | 3/6/2007    | <0.1  | 0.02  | 2.9   | 1.3  | 4.2  |



**Table 2-15**  
**Basin and Lysimeter Water Monitoring Results for Turner 1 Basin:**  
**Ammonia-N, Nitrite-N, Nitrate-N, TKN, and TN (mg/L)**

| Station ID | Depth | Sample Date | NH3-N | NO2-N | NO3-N | TKN | TN  |
|------------|-------|-------------|-------|-------|-------|-----|-----|
| TRN1-0     | 0 ft  | 3/13/2007   | <0.1  | <0.01 | 2.5   | 2.1 | 4.6 |
| TRN1-5     | 5 ft  | 3/13/2007   | <0.1  | <0.01 | 1.6   | 0.6 | 2.2 |
| TRN1-10    | 10 ft | 3/13/2007   | <0.1  | <0.01 | 0.5   | 0.6 | 1.1 |
| TRN1-15    | 15 ft | 3/13/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-25    | 25 ft | 3/13/2007   | <0.1  | <0.01 | <0.1  | 0.7 | 0.7 |
| TRN1-35    | 35 ft | 3/13/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-0     | 0 ft  | 3/20/2007   | 0.1   | 0.03  | 2.2   | 2.7 | 4.9 |
| TRN1-5     | 5 ft  | 3/20/2007   | <0.1  | <0.01 | 1.2   | 0.8 | 2.0 |
| TRN1-10    | 10 ft | 3/20/2007   | <0.1  | <0.01 | 0.1   | 0.6 | 0.7 |
| TRN1-15    | 15 ft | 3/20/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-25    | 25 ft | 3/20/2007   | <0.1  | <0.01 | <0.1  | 0.8 | 0.8 |
| TRN1-35    | 35 ft | 3/20/2007   | <0.1  | <0.01 | 0.7   | 0.6 | 1.3 |
| TRN1-0     | 0 ft  | 3/27/2007   | 0.4   | 0.04  | 2.0   | 1.5 | 3.5 |
| TRN1-5     | 5 ft  | 3/27/2007   | <0.1  | <0.01 | 0.3   | 0.8 | 1.1 |
| TRN1-10    | 10 ft | 3/27/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-15    | 15 ft | 3/27/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-25    | 25 ft | 3/27/2007   | IV    | IV    | IV    | IV  | IDC |
| TRN1-35    | 35 ft | 3/27/2007   | IV    | IV    | IV    | IV  | IDC |

**Notes:**

ft: feet below the bottom of the basin  
mg/L: milligrams per liter  
TKN: Total Kjeldahl Nitrogen  
TN: Total Nitrogen  
IDC: Insufficient data to calculate  
IV: Insufficient Volume for analysis



**Table 2-16**  
**Basin and Lysimeter Water Monitoring Results for Turner 4 Basin: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| TRN4-0     | 0 ft  | 1/3/2007    | 5.76   | mg/L  |
| TRN4-5     | 5 ft  | 1/3/2007    | 2.67   | mg/L  |
| TRN4-10    | 10 ft | 1/3/2007    | 1.78   | mg/L  |
| TRN4-15    | 15 ft | 1/3/2007    | 1.83   | mg/L  |
| TRN4-25    | 25 ft | 1/3/2007    | 1.23   | mg/L  |
| TRN4-35    | 35 ft | 1/3/2007    | 1.29   | mg/L  |
| TRN4-0     | 0 ft  | 1/9/2007    | 5.99   | mg/L  |
| TRN4-5     | 5 ft  | 1/9/2007    | 2.68   | mg/L  |
| TRN4-10    | 10 ft | 1/9/2007    | 1.79   | mg/L  |
| TRN4-15    | 15 ft | 1/9/2007    | 1.89   | mg/L  |
| TRN4-25    | 25 ft | 1/9/2007    | 3.34   | mg/L  |
| TRN4-35    | 35 ft | 1/9/2007    | 1.24   | mg/L  |
| TRN4-0     | 0 ft  | 1/16/2007   | 6.68   | mg/L  |
| TRN4-5     | 5 ft  | 1/16/2007   | 2.74   | mg/L  |
| TRN4-10    | 10 ft | 1/16/2007   | 1.81   | mg/L  |
| TRN4-15    | 15 ft | 1/16/2007   | 1.82   | mg/L  |
| TRN4-25    | 25 ft | 1/16/2007   | 1.12   | mg/L  |
| TRN4-35    | 35 ft | 1/16/2007   | 1.24   | mg/L  |
| TRN4-0     | 0 ft  | 1/23/2007   | 7.61   | mg/L  |
| TRN4-5     | 5 ft  | 1/23/2007   | 2.84   | mg/L  |
| TRN4-10    | 10 ft | 1/23/2007   | 1.79   | mg/L  |
| TRN4-15    | 15 ft | 1/23/2007   | 1.87   | mg/L  |
| TRN4-25    | 25 ft | 1/23/2007   | 1.53   | mg/L  |
| TRN4-35    | 35 ft | 1/23/2007   | 1.26   | mg/L  |
| TRN4-0     | 0 ft  | 1/30/2007   | 8.06   | mg/L  |
| TRN4-5     | 5 ft  | 1/30/2007   | 2.53   | mg/L  |
| TRN4-10    | 10 ft | 1/30/2007   | 1.78   | mg/L  |
| TRN4-15    | 15 ft | 1/30/2007   | 1.75   | mg/L  |
| TRN4-25    | 25 ft | 1/30/2007   | 1.77   | mg/L  |
| TRN4-35    | 35 ft | 1/30/2007   | 1.14   | mg/L  |
| TRN4-0     | 0 ft  | 2/6/2007    | 6.04   | mg/L  |
| TRN4-5     | 5 ft  | 2/6/2007    | 2.16   | mg/L  |
| TRN4-10    | 10 ft | 2/6/2007    | 1.70   | mg/L  |
| TRN4-15    | 15 ft | 2/6/2007    | 1.69   | mg/L  |
| TRN4-25    | 25 ft | 2/6/2007    | 1.80   | mg/L  |
| TRN4-35    | 35 ft | 2/6/2007    | 1.14   | mg/L  |
| TRN4-0     | 0 ft  | 2/13/2007   | 6.46   | mg/L  |
| TRN4-5     | 5 ft  | 2/13/2007   | 2.08   | mg/L  |
| TRN4-10    | 10 ft | 2/13/2007   | 1.74   | mg/L  |
| TRN4-15    | 15 ft | 2/13/2007   | 1.75   | mg/L  |
| TRN4-25    | 25 ft | 2/13/2007   | 1.78   | mg/L  |
| TRN4-35    | 35 ft | 2/13/2007   | 1.20   | mg/L  |
| TRN4-0     | 0 ft  | 2/20/2007   | 7.05   | mg/L  |
| TRN4-5     | 5 ft  | 2/20/2007   | 2.60   | mg/L  |
| TRN4-10    | 10 ft | 2/20/2007   | 1.74   | mg/L  |
| TRN4-15    | 15 ft | 2/20/2007   | 1.63   | mg/L  |
| TRN4-25    | 25 ft | 2/20/2007   | IV     | mg/L  |
| TRN4-35    | 35 ft | 2/20/2007   | 0.99   | mg/L  |



**Table 2-16**  
**Basin and Lysimeter Water Monitoring Results for Turner 4 Basin: TOC**

| Station ID | Depth | Sample Date | Result | Units |
|------------|-------|-------------|--------|-------|
| TRN4-0     | 0 ft  | 3/6/2007    | 6.99   | mg/L  |
| TRN4-5     | 5 ft  | 3/6/2007    | 2.72   | mg/L  |
| TRN4-10    | 10 ft | 3/6/2007    | 1.81   | mg/L  |
| TRN4-15    | 15 ft | 3/6/2007    | 1.82   | mg/L  |
| TRN4-25    | 25 ft | 3/6/2007    | 1.76   | mg/L  |
| TRN4-35    | 35 ft | 3/6/2007    | 1.23   | mg/L  |
| TRN4-0     | 0 ft  | 3/13/2007   | 6.35   | mg/L  |
| TRN4-5     | 5 ft  | 3/13/2007   | 2.59   | mg/L  |
| TRN4-10    | 10 ft | 3/13/2007   | 1.74   | mg/L  |
| TRN4-15    | 15 ft | 3/13/2007   | 1.80   | mg/L  |
| TRN4-25    | 25 ft | 3/13/2007   | 3.88   | mg/L  |
| TRN4-35    | 35 ft | 3/13/2007   | 1.00   | mg/L  |
| TRN4-0     | 0 ft  | 3/20/2007   | 6.11   | mg/L  |
| TRN4-5     | 5 ft  | 3/20/2007   | 2.92   | mg/L  |
| TRN4-10    | 10 ft | 3/20/2007   | 1.69   | mg/L  |
| TRN4-15    | 15 ft | 3/20/2007   | 1.72   | mg/L  |
| TRN4-25    | 25 ft | 3/20/2007   | 1.56   | mg/L  |
| TRN4-35    | 35 ft | 3/20/2007   | 0.95   | mg/L  |
| TRN4-0     | 0 ft  | 3/27/2007   | 6.21   | mg/L  |
| TRN4-5     | 5 ft  | 3/27/2007   | 2.89   | mg/L  |
| TRN4-10    | 10 ft | 3/27/2007   | 1.73   | mg/L  |
| TRN4-15    | 15 ft | 3/27/2007   | 1.68   | mg/L  |
| TRN4-25    | 25 ft | 3/27/2007   | 1.03   | mg/L  |
| TRN4-35    | 35 ft | 3/27/2007   | 4.51   | mg/L  |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon



**Table 2-17**  
**Basin and Lysimeter Water Monitoring Results for Turner 4 Basin:**  
**Ammonia-N, Nitrite-N, Nitrate-N, TKN, and TN (mg/L)**

| Station ID | Depth | Sample Date | NH3-N | NO2-N | NO3-N | TKN  | TN   |
|------------|-------|-------------|-------|-------|-------|------|------|
| TRN4-0     | 0 ft  | 1/3/2007    | <0.1  | 0.04  | 2.4   | 1.6  | 4.1  |
| TRN4-5     | 5 ft  | 1/3/2007    | <0.1  | <0.01 | <0.1  | <0.5 | <0.5 |
| TRN4-10    | 10 ft | 1/3/2007    | 0.6   | <0.01 | <0.1  | <0.5 | <0.5 |
| TRN4-15    | 15 ft | 1/3/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN4-25    | 25 ft | 1/3/2007    | <0.1  | <0.01 | <0.1  | <0.5 | <0.5 |
| TRN4-35    | 35 ft | 1/3/2007    | <0.1  | IV    | IV    | <0.5 | IDC  |
| TRN4-0     | 0 ft  | 1/9/2007    | 0.2   | 0.05  | 1.9   | 2.4  | 4.4  |
| TRN4-5     | 5 ft  | 1/9/2007    | 0.2   | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-10    | 10 ft | 1/9/2007    | 0.2   | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-15    | 15 ft | 1/9/2007    | 0.3   | IV    | IV    | <0.5 | IDC  |
| TRN4-25    | 25 ft | 1/9/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 1/9/2007    | 0.4   | <0.01 | 1.2   | 0.6  | 1.8  |
| TRN4-0     | 0 ft  | 1/16/2007   | 0.2   | 0.04  | 1.9   | 2.2  | 4.1  |
| TRN4-5     | 5 ft  | 1/16/2007   | 0.3   | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-10    | 10 ft | 1/16/2007   | 0.2   | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-15    | 15 ft | 1/16/2007   | 0.2   | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-25    | 25 ft | 1/16/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 1/16/2007   | 0.2   | <0.01 | 0.3   | <0.5 | 0.3  |
| TRN4-0     | 0 ft  | 1/23/2007   | <0.1  | 0.05  | 1.4   | 2.1  | 3.4  |
| TRN4-5     | 5 ft  | 1/23/2007   | <0.1  | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-10    | 10 ft | 1/23/2007   | <0.1  | <0.01 | 0.2   | <0.5 | 0.2  |
| TRN4-15    | 15 ft | 1/23/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-25    | 25 ft | 1/23/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 1/23/2007   | <0.1  | <0.01 | 0.4   | <0.5 | 0.4  |
| TRN4-0     | 0 ft  | 1/30/2007   | <0.1  | 0.06  | 1.1   | 3.5  | 4.7  |
| TRN4-5     | 5 ft  | 1/30/2007   | <0.1  | <0.01 | <0.1  | 0.8  | 0.8  |
| TRN4-10    | 10 ft | 1/30/2007   | <0.1  | <0.01 | 0.3   | 0.5  | 0.8  |
| TRN4-15    | 15 ft | 1/30/2007   | <0.1  | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-25    | 25 ft | 1/30/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 1/30/2007   | <0.1  | IV    | IV    | 0.7  | IDC  |
| TRN4-0     | 0 ft  | 2/6/2007    | <0.1  | 0.06  | 1.1   | 1.0  | 2.2  |
| TRN4-5     | 5 ft  | 2/6/2007    | <0.1  | <0.01 | 0.3   | <0.5 | <0.6 |
| TRN4-10    | 10 ft | 2/6/2007    | <0.1  | <0.01 | 0.4   | <0.5 | <0.6 |
| TRN4-15    | 15 ft | 2/6/2007    | <0.1  | IV    | IV    | 0.6  | IDC  |
| TRN4-25    | 25 ft | 2/6/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 2/6/2007    | <0.1  | <0.01 | 0.3   | <0.5 | 0.3  |
| TRN4-0     | 0 ft  | 2/13/2007   | <0.1  | 0.04  | 1.4   | 1.6  | 3.0  |
| TRN4-5     | 5 ft  | 2/13/2007   | <0.1  | <0.01 | 0.3   | <0.5 | 0.3  |
| TRN4-10    | 10 ft | 2/13/2007   | <0.1  | <0.01 | 0.4   | <0.5 | 0.4  |
| TRN4-15    | 15 ft | 2/13/2007   | <0.1  | <0.01 | 0.1   | <0.5 | 0.1  |
| TRN4-25    | 25 ft | 2/13/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 2/13/2007   | <0.1  | <0.01 | 0.4   | <0.5 | 0.4  |
| TRN4-0     | 0 ft  | 2/20/2007   | <0.1  | 0.03  | 1.2   | 5.0  | 6.2  |
| TRN4-5     | 5 ft  | 2/20/2007   | <0.1  | <0.01 | 0.2   | <0.5 | 0.2  |
| TRN4-10    | 10 ft | 2/20/2007   | <0.1  | <0.01 | 0.2   | <0.5 | 0.2  |
| TRN4-15    | 15 ft | 2/20/2007   | <0.1  | <0.01 | <0.1  | <0.5 | <0.6 |
| TRN4-25    | 25 ft | 2/20/2007   | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 2/20/2007   | <0.1  | <0.01 | 0.4   | <0.5 | 0.4  |
| TRN4-0     | 0 ft  | 3/6/2007    | <0.1  | 0.05  | 1.0   | 2.2  | 3.3  |
| TRN4-5     | 5 ft  | 3/6/2007    | <0.1  | <0.01 | <0.1  | 1.1  | 1.1  |
| TRN4-10    | 10 ft | 3/6/2007    | <0.1  | <0.01 | 0.5   | 0.7  | 1.2  |
| TRN4-15    | 15 ft | 3/6/2007    | <0.1  | <0.01 | <0.1  | 0.7  | 0.7  |
| TRN4-25    | 25 ft | 3/6/2007    | IV    | IV    | IV    | IV   | IDC  |
| TRN4-35    | 35 ft | 3/6/2007    | <0.1  | <0.01 | 0.5   | 0.7  | 1.2  |





**Table 2-17**  
**Basin and Lysimeter Water Monitoring Results for Turner 4 Basin:**  
**Ammonia-N, Nitrite-N, Nitrate-N, TKN, and TN (mg/L)**

| Station ID | Depth | Sample Date | NH3-N | NO2-N | NO3-N | TKN  | TN  |
|------------|-------|-------------|-------|-------|-------|------|-----|
| TRN4-0     | 0 ft  | 3/13/2007   | <0.1  | 0.04  | 1.6   | 1.4  | 3.0 |
| TRN4-5     | 5 ft  | 3/13/2007   | <0.1  | <0.01 | <0.1  | 0.6  | 0.6 |
| TRN4-10    | 10 ft | 3/13/2007   | <0.1  | <0.01 | 0.8   | <0.5 | 0.8 |
| TRN4-15    | 15 ft | 3/13/2007   | IV    | IV    | IV    | IV   | IDC |
| TRN4-25    | 25 ft | 3/13/2007   | <0.1  | <0.01 | 1.2   | <0.5 | 1.2 |
| TRN4-35    | 35 ft | 3/13/2007   | <0.1  | <0.01 | 0.6   | 1.0  | 1.6 |
| TRN4-0     | 0 ft  | 3/20/2007   | <0.1  | 0.05  | 1.3   | 1.6  | 3.0 |
| TRN4-5     | 5 ft  | 3/20/2007   | <0.1  | <0.01 | <0.1  | 0.5  | 0.5 |
| TRN4-10    | 10 ft | 3/20/2007   | <0.1  | <0.01 | 0.7   | 0.8  | 1.5 |
| TRN4-15    | 15 ft | 3/20/2007   | <0.1  | <0.01 | 0.6   | 0.5  | 1.1 |
| TRN4-25    | 25 ft | 3/20/2007   | IV    | IV    | IV    | IV   | IDC |
| TRN4-35    | 35 ft | 3/20/2007   | <0.1  | <0.01 | 0.7   | <0.5 | 0.7 |
| TRN4-0     | 0 ft  | 3/27/2007   | 0.1   | 0.05  | 0.8   | 1.9  | 2.8 |
| TRN4-5     | 5 ft  | 3/27/2007   | <0.1  | <0.01 | <0.1  | <0.5 | 0.0 |
| TRN4-10    | 10 ft | 3/27/2007   | <0.1  | <0.01 | 0.5   | <0.5 | 0.5 |
| TRN4-15    | 15 ft | 3/27/2007   | <0.1  | <0.01 | 0.2   | <0.5 | 0.2 |
| TRN4-25    | 25 ft | 3/27/2007   | IV    | IV    | IV    | IV   | IDC |
| TRN4-35    | 35 ft | 3/27/2007   | IV    | IV    | IV    | IV   | IDC |

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TKN: Total Kjeldahl Nitrogen

TN: Total Nitrogen

IDC: Insufficient data to calculate

IV: Insufficient volume for analysis



Table 2-18  
Summary of Wells in Groundwater Monitoring Networks

| BASIN                     | CBWM_ID | OWNER/LOCAL NAME                       | SCREENED INTERVAL(S) (feet bgs)             | CASING DIAMETER (inches) | TYPE       | SAMPLING METHOD        |
|---------------------------|---------|----------------------------------------|---------------------------------------------|--------------------------|------------|------------------------|
| HICKORY AND BANANA BASINS | 3600573 | FONTANA WATER COMPANY - F37A           | 378-810                                     | 20                       | MUNICIPAL  | FAUCET DISCHARGE       |
|                           | 600660  | CALIFORNIA SPEEDWAY - Infield Well     | NA                                          | NA                       | INDUSTRIAL | FAUCET DISCHARGE       |
|                           | 3600371 | SOUTHERN CALIFORNIA EDISON - East Well | 434-467, 500-513, 553-580, 593-652, 825-847 | 20                       | INDUSTRIAL | FAUCET DISCHARGE       |
|                           | 3602267 | CITY OF ONTARIO - 20                   | NA                                          | 20                       | MUNICIPAL  | FAUCET DISCHARGE       |
|                           | BH1/1   | INLAND EMPIRE UTILITIES AGENCY         | 360-400                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
|                           | BH1/2   | INLAND EMPIRE UTILITIES AGENCY         | 430-470                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
| TURNER BASINS             | 3600010 | CITY OF ONTARIO - 25                   | 370-903                                     | 20                       | MUNICIPAL  | FAUCET DISCHARGE       |
|                           | 600453  | CITY OF ONTARIO - 29                   | 400-1095                                    | 18                       | MUNICIPAL  | FAUCET DISCHARGE       |
|                           | 600585  | CITY OF ONTARIO - 38                   | NA                                          | NA                       | MUNICIPAL  | FAUCET DISCHARGE       |
|                           | T1/1    | INLAND EMPIRE UTILITIES AGENCY         | 330-350                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
|                           | T1/2    | INLAND EMPIRE UTILITIES AGENCY         | 380-400                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
|                           | T2/1    | INLAND EMPIRE UTILITIES AGENCY         | 340-360                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
|                           | T2/2    | INLAND EMPIRE UTILITIES AGENCY         | 390-410                                     | 4                        | MONITORING | DEDICATED BLADDER PUMP |
|                           |         |                                        |                                             |                          |            |                        |

Notes:

- NA = Data not available
- CBWM I.D. = Chino Basin Water Master well identification number
- bgs = below ground surface



Table 2-19  
Groundwater Monitoring Results

| Monitoring Area             | CBWM ID | Local Name    | Sample Date | Quarter | ALUMINUM(MG/L) | AMMONIA-NITROGEN(MG/L) | CHLORIDE(MG/L) | COLOR(UNITS) | COPPER(µg/L) | CORROSIVITY INDEX(SI) | DO(Field Measurement; MGL) | FOAMING AGENTS(MGL) | IRON(MGL) | MANGANESE(MGL) | Methyl Tert-Butyl Ether (µg/L) | NITRATE-NITROGEN(MG/L) | NITRITE-NITROGEN(MGL) | ODOR THRESHOLD @ 60 C(TON) | PH (Field) | SILVER(µg/L) | SODIUM(MG/L) | SPECIFIC CONDUCTANCE(MICROMHO) | SULFATE(MGL) | THIOBENCARB(µg/L) | KJELDAHL NITROGEN, TOTAL (mg/L) | TOTAL COLIFORM (MPN/100 ML) | TOTAL DISSOLVED SOLIDS(MGL) | TOTAL HARDNESS (AS CaCO3)(MG/L) | TOTAL ORGANIC CARBON(MG/L) | TOTAL NITROGEN (MGL) | TURBIDITY(NTU) | ZINC(µg/L) |
|-----------------------------|---------|---------------|-------------|---------|----------------|------------------------|----------------|--------------|--------------|-----------------------|----------------------------|---------------------|-----------|----------------|--------------------------------|------------------------|-----------------------|----------------------------|------------|--------------|--------------|--------------------------------|--------------|-------------------|---------------------------------|-----------------------------|-----------------------------|---------------------------------|----------------------------|----------------------|----------------|------------|
|                             |         |               |             |         |                |                        |                |              |              |                       |                            |                     |           |                |                                |                        |                       |                            |            |              |              |                                |              |                   |                                 |                             |                             |                                 |                            |                      |                |            |
| Maximum Contaminant Level ▶ |         |               | 0.2         | 250*    | 15*            | 1000                   | NC*            | 2**          | 0.5*         | 0.3*                  | 0.05                       | 5*                  | 10        | 1              | 3*                             | 0.1*                   | 900*                  | 250*                       | 1*         | 500*         |              |                                |              |                   |                                 |                             |                             |                                 |                            |                      |                |            |
| Banana and Hickory Basins   | 600660  | Infield Well  | 15-Jun-06   | 2Q2006  | <0.025         | <0.1                   | 12             | <3           | 1.6          | 0.4                   | 2.43                       | <0.050              |           | 0.002          | <0.5                           | 8.0                    | <0.01                 | 1                          | 7.31       | <0.25        | 17           | 420                            | 15           | <0.5              | <0.5                            | <1.1                        | 290                         | 175                             | <0.1                       | 8.0                  | 0.40           | <1         |
|                             | 600660  | Infield Well  | 10-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 11             | <3           | 3.3          | 0.2                   | 9.74                       | <0.050              | <0.015    | <0.001         | <0.5                           | 6.7                    | <0.01                 | 1                          | 7.65       | <0.25        | 16           | 405                            | 17           | 0.2               | 1.1                             | <1.1                        | 280                         | 164                             | 0.11                       | 7.8                  | 0.14           | 1          |
|                             | 600660  | Infield Well  | 09-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 12             | <3           | 2.6          | 0.4                   | 13.2                       | <0.050              | <0.015    | <0.001         | <0.5                           | 8.8                    | <0.01                 | 1                          | 7.64       | <0.25        | 18           | 435                            | 18           | <0.2              | <0.5                            | 2.2                         | 274                         | 189                             | <0.1                       | 8.8                  | 0.32           | 2          |
|                             | 600660  | Infield Well  | 09-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 12             | <3           | 1.5          | 0.3                   | 8.94                       | <0.050              | <0.015    | <0.001         | <0.5                           | 8.7                    | <0.01                 |                            | 7.64       | <0.25        | 20           | 134                            | 20           | <0.2              | <0.5                            | <1.1                        | 302                         | 205                             | <0.1                       | 8.7                  | 0.23           | <1         |
|                             | 601002  | BH-1/2        | 13-Apr-06   | 2Q2006  | -              | <0.1                   | 15             | -            | 0.6          | -                     | 2.01                       | -                   | -         | <0.001         | -                              | 7.2                    | <0.01                 | -                          | 7.80       | 0.29         | 18           | -                              | 22           | -                 | <0.2                            | -                           | 274                         | 161                             | 0.42                       | 7.2                  | -              | 7          |
|                             | 601002  | BH-1/2        | 27-Apr-06   | 2Q2006  | -              | <0.1                   | 12             | -            | <0.5         | -                     | -                          | -                   | -         | <0.001         | -                              | 6.4                    | <0.01                 | -                          | 7.90       | <0.25        | 18           | -                              | 22           | -                 | <0.2                            | -                           | 232                         | 160                             | 0.27                       | 6.4                  | -              | <1         |
|                             | 601002  | BH-1/2        | 11-May-06   | 2Q2006  | -              | <0.1                   | 11             | -            | -            | -                     | 3.49                       | -                   | -         | -              | -                              | 6.2                    | <0.01                 | -                          | 7.65       | -            | 18           | -                              | 21           | -                 | 0.3                             | -                           | 248                         | 150                             | 0.23                       | 6.5                  | -              | -          |
|                             | 601002  | BH-1/2        | 24-May-06   | 2Q2006  | <0.025         | <0.1                   | 13             | -            | 1.2          | -                     | -                          | -                   | -         | <0.001         | -                              | 6.2                    | <0.01                 | -                          | 7.80       | <0.25        | 17           | -                              | 21           | -                 | <0.5                            | -                           | 246                         | 154                             | 0.37                       | 6.2                  | -              | 3          |
|                             | 601002  | BH-1/2        | 09-Jun-06   | 2Q2006  | <0.025         | 0.20                   | 15             | <3           | <0.5         | 0.2                   | 2.96                       | <0.050              | <0.015    | <0.001         | <0.5                           | 6.6                    | <0.01                 | 1                          | 7.80       | <0.25        | 17           | 395                            | 21           | -                 | <0.5                            | <1.1                        | 272                         | 153                             | 0.24                       | 6.8                  | 0.18           | 4          |
|                             | 601002  | BH-1/2        | 22-Jun-06   | 2Q2006  | <0.025         | <0.1                   | 16             | -            | <0.5         | -                     | 3.86                       | -                   | -         | <0.001         | -                              | 6.8                    | <0.01                 | -                          | 7.75       | <0.25        | -            | -                              | 21           | -                 | <0.5                            | -                           | 282                         | -                               | 0.45                       | 6.8                  | -              | 5          |
|                             | 601002  | BH-1/2        | 05-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 20             | -            | 0.6          | -                     | -                          | -                   | -         | <0.001         | -                              | 7.3                    | <0.01                 | -                          | 7.95       | <0.25        | -            | -                              | 26           | <0.5              | <0.5                            | -                           | -                           | 159                             | 0.31                       | 7.3                  | -              | 1          |
|                             | 601002  | BH-1/2        | 14-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 20             | -            | <0.5         | -                     | 3.61                       | -                   | -         | <0.001         | -                              | 7.2                    | <0.01                 | -                          | 7.8        | <0.25        | -            | -                              | 24           | -                 | 1.7                             | -                           | -                           | 164                             | 0.19                       | 8.9                  | -              | <1         |
|                             | 601002  | BH-1/2        | 27-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 15             | -            | <0.5         | -                     | 5.67                       | -                   | -         | <0.001         | -                              | 6.2                    | <0.01                 | -                          | 7.8        | <0.25        | 17           | -                              | 22           | -                 | 0.9                             | -                           | -                           | 163                             | 0.25                       | 7.1                  | -              | <1         |
|                             | 601002  | BH-1/2        | 10-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 14             | <3           | <0.5         | 0.3                   | 6.16                       | <0.050              | <0.015    | <0.001         | <0.5                           | 6.2                    | <0.01                 | 1                          | 7.8        | <0.25        | 17           | 400                            | 24           | < 0.2             | <0.5                            | <1.1                        | 272                         | 161                             | 0.14                       | 6.2                  | 0.12           | <1         |
|                             | 601002  | BH-1/2        | 24-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 14             | -            | <0.5         | -                     | 6.66                       | -                   | -         | <0.001         | -                              | 6.0                    | <0.01                 | -                          | 7.9        | <0.25        | 17           | -                              | 23           | -                 | 0.5                             | -                           | 274                         | 164                             | 0.13                       | 6.5                  | -              | 3          |
|                             | 601002  | BH-1/2        | 07-Sep-06   | 3Q2006  | -              | <0.1                   | 11             | -            | -            | -                     | 7.47                       | -                   | -         | -              | -                              | 5.3                    | <0.01                 | -                          | 6.36       | -            | 17           | -                              | 24           | -                 | 0.5                             | -                           | 254                         | 161                             | 0.1                        | 5.8                  | -              | -          |
|                             | 601002  | BH-1/2        | 21-Sep-06   | 3Q2006  | -              | <0.1                   | 12             | -            | -            | -                     | 6.50                       | -                   | -         | -              | -                              | 5.4                    | <0.01                 | -                          | 6.69       | -            | -            | -                              | 25           | -                 | <0.5                            | -                           | 256                         | -                               | 0.13                       | 5.4                  | -              | -          |
|                             | 601002  | BH-1/2        | 05-Oct-06   | 4Q2006  | <0.025         | 3.2                    | 9              | -            | <0.5         | -                     | 7.51                       | -                   | -         | <0.001         | -                              | 5                      | <0.01                 | -                          | 7.66       | <0.25        | 19           | 394                            | 26           | -                 | <0.5                            | -                           | 246                         | 166                             | 0.18                       | 5.0                  | -              | <1         |
|                             | 601002  | BH-1/2        | 19-Oct-06   | 4Q2006  | <0.025         | <0.1                   | 11             | -            | <0.5         | -                     | 8.08                       | -                   | -         | <0.001         | -                              | 4.7                    | <0.01                 | -                          | 7.65       | <0.25        | 19           | 419                            | 27           | -                 | <0.5                            | -                           | 254                         | 159                             | 0.1                        | 4.7                  | -              | <1         |
|                             | 601002  | BH-1/2        | 02-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 9              | <3           | 0.8          | 0.2                   | 8.06                       | 0.28                | <0.015    | <0.001         | <0.5                           | 4.9                    | <0.01                 | 1                          | 7.67       | <0.25        | 18           | 370                            | 27           | DNR               | 0.6                             | <1.1                        | 260                         | 159                             | 0.19                       | 5.5                  | 0.13           | 4          |
|                             | 601002  | BH-1/2        | 16-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 8              | -            | <0.5         | -                     | 12.8                       | -                   | -         | 0.002          | -                              | 5.1                    | <0.01                 | -                          | 7.6        | <0.25        | 18           | 370                            | 27           | -                 | <0.5                            | -                           | 252                         | 156                             | 0.14                       | 5.1                  | -              | 4          |
|                             | 601002  | BH-1/2        | 30-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 8              | -            | <0.5         | -                     | 12.5                       | -                   | -         | <0.001         | -                              | 5                      | <0.01                 | -                          | 7.65       | <0.25        | 18           | 365                            | 28           | -                 | <0.5                            | -                           | 246                         | 157                             | 0.16                       | 5.0                  | -              | 2          |
|                             | 601002  | BH-1/2        | 14-Dec-06   | 4Q2006  | -              | 0.1                    | 19             | -            | -            | -                     | 11.7                       | -                   | -         | -              | -                              | 1                      | <0.01                 | -                          | 7.79       | -            | 18           | 375                            | 20           | -                 | <0.5                            | -                           | 236                         | 154                             | 0.15                       | 1.0                  | -              | -          |
|                             | 601002  | BH-1/2        | 27-Dec-06   | 4Q2006  | -              | <0.1                   | 8              | -            | -            | -                     | -                          | -                   | -         | -              | -                              | 5                      | <0.01                 | -                          | 7.70       | -            | -            | 370                            | 28           | -                 | <0.5                            | -                           | 254                         | 157                             | 0.14                       | 5.0                  | -              | -          |
|                             | 601002  | BH-1/2        | 11-Jan-07   | 1Q2007  | <0.025         | 0.3                    | 8              | -            | 0.7          | -                     | 6.8                        | -                   | -         | <0.001         | -                              | 5                      | <0.01                 | -                          | -          | <0.25        | 18           | -                              | 28           | -                 | <0.5                            | -                           | 238                         | 153                             | 0.22                       | 5.2                  | -              | 2          |
|                             | 601002  | BH-1/2        | 25-Jan-07   | 1Q2007  | <0.025         | <0.1                   | 11             | -            | <0.5         | -                     | 9.53                       | -                   | -         | <0.001         | -                              | 5.1                    | <0.01                 | -                          | -          | <0.25        | 19           | -                              | 29           | -                 | <0.5                            | -                           | 244                         | 160                             | 0.18                       | 5.1                  | -              | 2          |
|                             | 601002  | BH-1/2        | 08-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 9              | <3           | <0.5         | 0.3                   | 7.29                       | <0.05               | <0.015    | <0.001         | <0.5                           | 4.9                    | <0.01                 | 1                          | 7.61       | <0.25        | 18           | 321                            | 30           | <0.2              | <0.5                            | <1.1                        | 246                         | 157                             | 0.12                       | 4.9                  | 0.19           | 2          |
|                             | 601002  | BH-1/2        | 22-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 9              | -            | <0.5         | -                     | 9.28                       | -                   | -         | <0.001         | -                              | 4.6                    | <0.01                 | -                          | -          | <0.25        | 18           | -                              | 30           | -                 | <0.5                            | -                           | 244                         | 153                             | 0.21                       | 4.6                  | -              | 2          |
|                             | 3600371 | SCE East Well | 15-Jun-06   | 2Q2006  | <0.025         | <0.1                   | 11             | <3           | 4.5          | 0.0                   | 2.42                       | <0.050              | <0.005    | <0.001         | <0.5                           | 4.8                    | <0.01                 | 1                          | 7.7        | <0.25        | 17           | 335                            | 15           | <0.5              | <0.5                            | <1.1                        | 242                         | 129                             | 0.17                       | 4.8                  | 0.15           | 1          |
|                             | 3600371 | SCE East Well | 10-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 11             | <3           | 3.8          | -0.1                  | 8.04                       | <0.050              | <0.015    | <0.001         | <0.5                           | 4.7                    | <0.01                 | 1                          | 7.6        | <0.25        | 16           | 330                            | 16           | <0.2              | 0.9                             | <1.1                        | 238                         | 124                             | <0.1                       | 5.6                  | 0.18           | 3          |
|                             | 3600371 | SCE East Well | 09-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 13             | <3           | 2.6          | 0.1                   | 12.4                       | <0.050              | 0.02      | 0.001          | <0.5                           | 7.1                    | <0.01                 | 1                          | 7.47       | <0.25        | 16           | 350                            | 19           | <0.2              | <0.5                            | <1.1                        | 226                         | 140                             | <0.1                       | 7.1                  | 0.48           | 3          |
|                             | 3600371 | SCE East Well | 29-Jan-07   | 1Q2007  | 0.363          | <0.1                   | 13             | <3           | 21.7         | 0.1                   | 10.1                       | 0.056               | 0.106     | 0.015          | <0.5                           | 6.6                    | <0.01                 | 2                          | 7.72       | <0.25        | 17           | 364                            | 19           | <0.2              | <0.5                            | <1.1                        | 236                         | 140                             | <0.1                       | 6.6                  | 0.88           | 11         |
|                             | 3600573 | F37A          | 20-Jun-06   | 2Q2006  | 0.036          | <0.1                   | 14             | -            | 2.0          | 0.4                   | 2.8                        | -                   | 0.416     | 0.009          | <0.5                           | 9.9                    | <0.01                 | -                          | 7.80       | <0.25        | 16           | 445                            | 13           | -                 | 2.6                             | <1.1                        | 288                         | 185                             | <0.1                       | 12.5                 | 0.34           | 4          |
|                             | 3600573 | F37A          | 15-Aug-06   | 3Q2006  | 0.047          | <0.1                   | 14             | <3           | 3.1          | 0.4                   | 8.02                       | <0.050              | 0.049     | 0.004          | <0.5                           | 9.7                    | <0.01                 | 1                          | 7.8        | <0.25        | 16           | 445                            | 13           | <0.2              | 0.7                             | <1.1                        | 298                         | 182                             | <0.1                       | 10.4                 | 0.48           | 4          |
|                             | 3600573 | F37A          | 09-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 15             | <3           | 4.8          | 0.4                   | 11.2                       | <0.050              | 0.031     | 0.003          | <0.5                           | 9.8                    | <0.01                 | -                          | 7.56       | <0.25        | 18           | 144                            | 14           | <0.2              | <0.5                            | <1.1                        |                             |                                 |                            |                      |                |            |

Table 2-19  
Groundwater Monitoring Results

| Monitoring Area             | CBWM ID | Local Name | Sample Date | Quarter | ALUMINUM(MG/L) | AMMONIA-NITROGEN(MG/L) | CHLORIDE(MG/L) | COLOR(UNITS) | COPPER(µg/L) | CORROSIVITY INDEX(SI) | DO(Field Measurement; MG/L) | FOAMING AGENTS(MG/L) | IRON(MG/L) | MANGANESE(MG/L) | Methyl Tert-Butyl Ether (µg/L) | NITRATE-NITROGEN(MG/L) | NITRITE-NITROGEN(MG/L) | ODOR THRESHOLD @ 60 C(TON) | PH (Field) | SILVER(µg/L) | SODIUM(MG/L) | SPECIFIC CONDUCTANCE(MICROMHO) | SULFATE(MG/L) | THIOBENCARB(µg/L) | KJELDAHL NITROGEN, TOTAL (mg/L) | TOTAL COLIFORM (MPN/100 ML) | TOTAL DISSOLVED SOLIDS(MG/L) | TOTAL HARDNESS (AS CaCO3)(MG/L) | TOTAL ORGANIC CARBON(MG/L) | TOTAL NITROGEN (MG/L) | TURBIDITY(NTU) | ZINC(µg/L) |
|-----------------------------|---------|------------|-------------|---------|----------------|------------------------|----------------|--------------|--------------|-----------------------|-----------------------------|----------------------|------------|-----------------|--------------------------------|------------------------|------------------------|----------------------------|------------|--------------|--------------|--------------------------------|---------------|-------------------|---------------------------------|-----------------------------|------------------------------|---------------------------------|----------------------------|-----------------------|----------------|------------|
|                             |         |            |             |         |                |                        |                |              |              |                       |                             |                      |            |                 |                                |                        |                        |                            |            |              |              |                                |               |                   |                                 |                             |                              |                                 |                            |                       |                |            |
| Maximum Contaminant Level ▶ |         |            |             | 0.2     | 250*           | 15*                    | 1000           | NC*          | 2**          | 0.5*                  | 0.3*                        | 0.05                 | 5*         | 10              | 1                              | 3*                     | PH (Field)             | 0.1*                       | 900*       | 250*         | 1*           | 500*                           |               |                   |                                 |                             |                              |                                 |                            |                       |                |            |
| Turner Basin                | 600998  | T-1/2      | 27-Dec-06   | 4Q2006  | --             | <0.1                   | 75             | --           | --           | --                    | 6.96                        | --                   | --         | --              | --                             | 1.0                    | <0.01                  | --                         | 7.47       | --           | --           | 490                            | 19            | --                | <0.5                            | --                          | 312                          | 193                             | 0.72                       | 1                     | --             | --         |
|                             | 600998  | T-1/2      | 11-Jan-07   | 1Q2007  | <0.025         | <0.1                   | 79             | --           | <0.5         | --                    | --                          | --                   | --         | <0.001          | --                             | 0.9                    | <0.01                  | --                         | --         | <0.25        | 23           | --                             | 20            | --                | <0.5                            | --                          | 310                          | 198                             | 0.75                       | 1.2                   | --             | <1         |
|                             | 600998  | T-1/2      | 25-Jan-07   | 1Q2007  | <0.025         | <0.1                   | 86             | --           | <0.5         | --                    | 8.74                        | --                   | --         | <0.001          | --                             | 0.7                    | <0.01                  | --                         | --         | <0.25        | 24           | --                             | 24            | --                | <0.5                            | --                          | 350                          | 215                             | 0.85                       | 0.7                   | --             | <1         |
|                             | 600998  | T-1/2      | 08-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 90             | <3           | <0.5         | 0                     | 9.34                        | <0.05                | <0.015     | <0.001          | <0.5                           | 0.6                    | <0.01                  | 1                          | 7.58       | <0.25        | 25           | 565                            | 28            | <0.2              | <0.5                            | <1.1                        | 368                          | 216                             | 0.73                       | 0.6                   | 0.59           | <1         |
|                             | 600998  | T-1/2      | 22-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 88             | --           | <0.5         | --                    | 8.76                        | --                   | --         | <0.001          | --                             | 0.5                    | <0.01                  | --                         | --         | <0.25        | 25           | --                             | 31            | --                | <0.5                            | --                          | 342                          | 234                             | 0.76                       | <0.6                  | --             | <1         |
|                             | 600999  | T-2/1      | 03-Jul-06   | 3Q2006  | 0.184          | <0.1                   | 22             | --           | 1.1          | --                    | 3.01                        | --                   | --         | 0.004           | --                             | 0.9                    | <0.01                  | --                         | 7.65       | 0.41         | --           | --                             | 22            | <0.5              | 0.8                             | --                          | --                           | 133                             | 0.82                       | 1.7                   | --             | 2          |
|                             | 600999  | T-2/1      | 14-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 20             | --           | <0.5         | --                    | 3.87                        | --                   | --         | <0.001          | --                             | 0.7                    | <0.01                  | --                         | 7.32       | <0.25        | --           | --                             | 22            | --                | 1.9                             | --                          | --                           | 125                             | 0.65                       | 2.6                   | --             | <1         |
|                             | 600999  | T-2/1      | 27-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 17             | --           | <0.5         | --                    | 7.7                         | --                   | --         | <0.001          | --                             | 0.5                    | 0.19                   | --                         | 7.18       | <0.25        | 16           | --                             | 18            | --                | 0.8                             | --                          | --                           | 115                             | 0.75                       | 1.5                   | --             | <1         |
|                             | 600999  | T-2/1      | 10-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 14             | 3            | 0.5          | -0.1                  | 6.8                         | <0.050               | <0.015     | <0.001          | <0.5                           | 0.5                    | <0.01                  | 1                          | 7.7        | <0.25        | 15           | 280                            | 17            | <0.2              | <0.5                            | <1.1                        | 182                          | 111                             | 0.55                       | 0.5                   | 0.20           | <1         |
|                             | 600999  | T-2/1      | 24-Aug-06   | 3Q2006  | --             | <0.1                   | 14             | --           | --           | --                    | 6.04                        | --                   | --         | --              | --                             | 0.4                    | <0.01                  | --                         | 7.85       | --           | 16           | --                             | 16            | --                | 0.6                             | --                          | 190                          | 106                             | 0.51                       | 1.0                   | --             | --         |
|                             | 600999  | T-2/1      | 07-Sep-06   | 3Q2006  | <0.025         | <0.1                   | 14             | --           | <0.5         | --                    | 9.6                         | --                   | --         | 0.005           | --                             | 0.6                    | <0.01                  | --                         | 7.7        | <0.25        | 15           | --                             | 14            | --                | <0.5                            | --                          | 164                          | --                              | 0.45                       | 0.6                   | --             | <1         |
|                             | 600999  | T-2/1      | 21-Sep-06   | 3Q2006  | --             | <0.1                   | 13             | --           | --           | --                    | 8.75                        | --                   | --         | --              | --                             | 0.5                    | <0.01                  | --                         | 7.85       | --           | --           | --                             | 14            | --                | <0.5                            | --                          | 172                          | --                              | 0.48                       | 0.5                   | --             | --         |
|                             | 600999  | T-2/1      | 05-Oct-06   | 4Q2006  | <0.025         | <0.1                   | 15             | --           | <0.5         | --                    | 7.51                        | --                   | --         | <0.001          | --                             | 0.6                    | <0.01                  | --                         | 7.53       | <0.25        | 19           | 264                            | 14            | --                | <0.5                            | --                          | 170                          | 97                              | 0.57                       | 0.6                   | --             | <1         |
|                             | 600999  | T-2/1      | 19-Oct-06   | 4Q2006  | <0.025         | <0.1                   | 15             | --           | 0.6          | --                    | 7.33                        | --                   | --         | <0.001          | --                             | 1.5                    | <0.01                  | --                         | 7.53       | <0.25        | 19           | 281                            | 15            | --                | <0.5                            | --                          | 178                          | 98                              | 0.42                       | 1.5                   | --             | 1          |
|                             | 600999  | T-2/1      | 02-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 15             | --           | 0.5          | --                    | 7.67                        | --                   | --         | <0.001          | --                             | 0.6                    | <0.01                  | --                         | 7.51       | <0.25        | 18           | 240                            | 14            | --                | 1.2                             | --                          | 184                          | 98                              | 0.5                        | 1.8                   | --             | 1          |
|                             | 600999  | T-2/1      | 16-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 16             | <3           | <0.5         | -0.2                  | 11.8                        | <0.050               | <0.015     | <0.001          | <0.5                           | 0.5                    | <0.01                  | 1                          | 7.48       | <0.25        | 19           | 255                            | 14            | <0.2              | <0.5                            | <1.1                        | 176                          | 94                              | 0.46                       | 0.5                   | 0.20           | 1          |
|                             | 600999  | T-2/1      | 30-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 18             | --           | 0.8          | --                    | 12.5                        | --                   | --         | <0.001          | --                             | 0.4                    | <0.01                  | --                         | 7.54       | <0.25        | 20           | 260                            | 14            | --                | <0.5                            | --                          | 178                          | 98                              | 1.21                       | 0.4                   | --             | 3          |
|                             | 600999  | T-2/1      | 14-Dec-06   | 4Q2006  | --             | <0.1                   | 21             | --           | --           | --                    | 5.51                        | --                   | --         | --              | --                             | 0.3                    | <0.01                  | --                         | 7.4        | --           | 19           | 265                            | 13            | --                | <0.5                            | --                          | 170                          | 95                              | 0.48                       | 0.3                   | --             | --         |
|                             | 600999  | T-2/1      | 27-Dec-06   | 4Q2006  | --             | <0.1                   | 23             | --           | --           | --                    | --                          | --                   | --         | --              | --                             | 0.2                    | <0.01                  | --                         | --         | --           | --           | 270                            | 13            | --                | <0.5                            | --                          | 182                          | 100                             | 0.49                       | 0.3                   | --             | --         |
|                             | 600999  | T-2/1      | 11-Jan-07   | 1Q2007  | <0.025         | <0.1                   | 24             | --           | 0.7          | --                    | 9.64                        | --                   | --         | 0.003           | --                             | 0.4                    | <0.01                  | --                         | --         | <0.25        | 19           | --                             | 14            | --                | <0.5                            | --                          | 174                          | 105                             | 0.48                       | <0.6                  | --             | 2          |
|                             | 600999  | T-2/1      | 25-Jan-07   | 1Q2007  | <0.025         | <0.1                   | 27             | --           | 0.5          | --                    | 9.36                        | --                   | --         | <0.001          | --                             | 0.2                    | <0.01                  | --                         | --         | <0.25        | 19           | --                             | 14            | --                | <0.5                            | --                          | 192                          | 109                             | 0.54                       | <0.6                  | --             | <1         |
|                             | 600999  | T-2/1      | 08-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 30             | <3           | <0.5         | -0.2                  | 7.96                        | <0.05                | <0.015     | <0.001          | <0.5                           | 0.2                    | <0.01                  | 1                          | 7.48       | <0.25        | 20           | 273                            | 14            | <0.2              | <0.5                            | <1.1                        | 196                          | 116                             | 0.49                       | <0.6                  | 0.63           | <1         |
|                             | 600999  | T-2/1      | 22-Feb-07   | 1Q2007  | <0.025         | <0.1                   | 33             | --           | <0.5         | --                    | 9.58                        | --                   | --         | <0.001          | --                             | 0.2                    | <0.01                  | --                         | --         | <0.25        | 21           | --                             | 14            | --                | <0.5                            | --                          | 204                          | 119                             | 0.46                       | <0.6                  | --             | <1         |
|                             | 601000  | T-2/2      | 03-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 26             | --           | 0.5          | --                    | 3.46                        | --                   | --         | <0.001          | --                             | 0.8                    | <0.01                  | --                         | 7.65       | <0.25        | --           | --                             | 20            | <0.5              | 1.0                             | --                          | --                           | 133                             | 0.75                       | 1.8                   | --             | <1         |
|                             | 601000  | T-2/2      | 14-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 23             | --           | <0.5         | --                    | 3.51                        | --                   | --         | <0.001          | --                             | 0.9                    | <0.01                  | --                         | 7.39       | <0.25        | --           | --                             | 22            | --                | 2.1                             | --                          | --                           | 128                             | 0.62                       | 3.0                   | --             | <1         |
|                             | 601000  | T-2/2      | 27-Jul-06   | 3Q2006  | <0.025         | <0.1                   | 17             | --           | <0.5         | --                    | 7.33                        | --                   | --         | <0.001          | --                             | 0.7                    | 0.19                   | --                         | 7.19       | <0.25        | 14           | --                             | 19            | --                | 1.0                             | --                          | --                           | 116                             | 0.65                       | 1.89                  | --             | <1         |
|                             | 601000  | T-2/2      | 10-Aug-06   | 3Q2006  | <0.025         | <0.1                   | 13             | <3           | <0.5         | -0.2                  | 7.43                        | <0.050               | <0.015     | <0.001          | <0.5                           | 0.6                    | <0.01                  | 1                          | 7.61       | <0.25        | 13           | 275                            | 17            | <0.2              | 1.3                             | <1.1                        | 184                          | 102                             | 0.68                       | 1.9                   | 0.30           | <1         |
|                             | 601000  | T-2/2      | 24-Aug-06   | 3Q2006  | --             | <0.1                   | 13             | --           | --           | --                    | 6.47                        | --                   | --         | --              | --                             | 0.6                    | <0.01                  | --                         | 7.7        | --           | 14           | --                             | <1            | --                | <0.5                            | --                          | 184                          | 107                             | 0.56                       | 0.6                   | --             | --         |
|                             | 601000  | T-2/2      | 07-Sep-06   | 3Q2006  | <0.025         | <0.1                   | 14             | --           | <0.5         | --                    | 7.92                        | --                   | --         | <0.001          | --                             | 0.7                    | <0.01                  | --                         | 7.65       | <0.25        | 12           | --                             | 14            | --                | <0.5                            | --                          | 160                          | --                              | 0.42                       | 0.7                   | --             | 2          |
|                             | 601000  | T-2/2      | 21-Sep-06   | 3Q2006  | --             | <0.1                   | 14             | --           | --           | --                    | 7.94                        | --                   | --         | --              | --                             | 0.7                    | <0.01                  | --                         | 7.75       | --           | --           | --                             | 14            | --                | <0.5                            | --                          | 162                          | --                              | 0.45                       | 0.7                   | --             | --         |
|                             | 601000  | T-2/2      | 05-Oct-06   | 4Q2006  | <0.025         | <0.1                   | 20             | --           | <0.5         | --                    | 7.99                        | --                   | --         | <0.001          | --                             | 0.9                    | <0.01                  | --                         | 7.49       | <0.25        | 14           | 272                            | 18            | --                | <0.5                            | --                          | 178                          | 112                             | 0.51                       | 0.9                   | --             | <1         |
|                             | 601000  | T-2/2      | 19-Oct-06   | 4Q2006  | <0.025         | <0.1                   | 20             | --           | <0.5         | --                    | 8.06                        | --                   | --         | <0.001          | --                             | 0.7                    | <0.01                  | --                         | 7.43       | <0.25        | 14           | 296                            | 16            | --                | <0.5                            | --                          | 184                          | 116                             | 0.50                       | 0.7                   | --             | 1          |
|                             | 601000  | T-2/2      | 02-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 22             | --           | 1.5          | --                    | 8.27                        | --                   | --         | <0.001          | --                             | 0.7                    | <0.01                  | --                         | 7.45       | <0.25        | 13           | 278                            | 15            | --                | <0.5                            | --                          | 198                          | 112                             | 0.60                       | 0.7                   | --             | 7          |
|                             | 601000  | T-2/2      | 16-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 24             | <3           | <0.5         | -0.1                  | 12.9                        | <0.050               | <0.015     | <0.001          | <0.5                           | 0.6                    | <0.01                  | 1                          | 7.45       | <0.25        | 14           | 290                            | 14            | <0.2              | <0.5                            | <1.1                        | 186                          | 121                             | 0.43                       | 0.6                   | 0.13           | <1         |
|                             | 601000  | T-2/2      | 30-Nov-06   | 4Q2006  | <0.025         | <0.1                   | 27             | --           | <0.5         | --                    | 12.5                        | --                   | --         | <0.001          | --                             | 0.6                    | <0.01                  | --                         | 7.47       | <0.25        | 14           | 295                            | 14            | --                | 2.8                             | --                          | 194                          | 124                             | 0.46                       | 3.4                   | --             | 1          |
|                             | 601000  | T-2/2      | 14-Dec-06   | 4Q2006  | --             | <0.1                   | 156            | --           | --           | --                    | 5.66                        | --                   | --         | --              | --                             | <0.1                   | <0.01                  | --                         | 7.34       | --           | 14           | 300                            | 120           | --                | <0.5                            | --                          | 188                          | 123                             | 0.45                       | <0.6                  | --             | --         |
|                             | 601000  | T-2/2      | 27-Dec-06   | 4Q2006  | --             | <0.1                   | 26             | --           | --           | --                    | --                          | --                   | --         | --              | --                             |                        |                        |                            |            |              |              |                                |               |                   |                                 |                             |                              |                                 |                            |                       |                |            |

Table 2-19  
Groundwater Monitoring Results

| Monitoring Area | CBWM ID | Local Name                  | Sample Date | Quarter | ALUMINUM(MG/L) | AMMONIA-NITROGEN(MG/L) | CHLORIDE(MG/L) | COLOR(UNITS) | COPPER(µg/L) | CORROSIVITY INDEX(SI) | DO(Field Measurement; MG/L) | FOAMING AGENTS(MG/L) | IRON(MG/L) | MANGANESE(MG/L) | Methyl Tert-Butyl Ether (µg/L) | NITRATE-NITROGEN(MG/L) | NITRITE-NITROGEN(MG/L) | ODOR THRESHOLD @ 60 C(TON) | PH (Field) | SILVER(µg/L) | SODIUM(MG/L) | SPECIFIC CONDUCTANCE(MICROMHO) | SULFATE(MG/L) | THIOBENCARB(µg/L) | KJELDAHL NITROGEN, TOTAL (mg/L) | TOTAL COLIFORM (MPN/100 ML) | TOTAL DISSOLVED SOLIDS(MG/L) | TOTAL HARDNESS (AS CaCO3)(MG/L) | TOTAL ORGANIC CARBON(MG/L) | TOTAL NITROGEN (MG/L) | TURBIDITY(NTU) | ZINC(µg/L) |    |
|-----------------|---------|-----------------------------|-------------|---------|----------------|------------------------|----------------|--------------|--------------|-----------------------|-----------------------------|----------------------|------------|-----------------|--------------------------------|------------------------|------------------------|----------------------------|------------|--------------|--------------|--------------------------------|---------------|-------------------|---------------------------------|-----------------------------|------------------------------|---------------------------------|----------------------------|-----------------------|----------------|------------|----|
|                 |         | Maximum Contaminant Level ▶ |             |         | 0.2            |                        | 250*           | 15*          | 1000         | NC*                   | 2**                         | 0.5*                 | 0.3*       | 0.05            | 5*                             | 10                     | 1                      | 3*                         |            | 0.1*         |              | 900*                           | 250*          | 1*                |                                 |                             | 500*                         |                                 |                            |                       |                | 5*         | 5* |

NOTES:

- 1 Sample Collected by the City of Ontario
- \* Secondary Maximum Contaminant Level
- \*\* Dissolved Oxygen May Not Fall Below 2 mg/L in Two Consecutive Samples
- <0.01 Analyte Not Detected at or Above Indicated Detection Limit
- Bold Values in Bold Exceed Federal Primary Maximum Contaminant Level**
- CBWM Chino Basin Watermaster
- Not Tested
- ND Not Detected
- DNR Data not reported by laboratory by the time of this report
- NA Field data is not available



Table 3-1  
Volume of Diluent and Recycled Water Recharged

| Date     | Imported Water |             |             | Local Runoff / Storm Flow   |             |             | Recycled Water |             |             |
|----------|----------------|-------------|-------------|-----------------------------|-------------|-------------|----------------|-------------|-------------|
|          | Hickory (AF)   | Banana (AF) | Turner (AF) | Hickory <sup>(1)</sup> (AF) | Banana (AF) | Turner (AF) | Hickory (AF)   | Banana (AF) | Turner (AF) |
| 01/01/07 | -0.6           | 11.4        | 0.0         | 0.3                         | 0.7         | 1.7         | 0.0            | 0.0         | 8.1         |
| 01/02/07 | -0.7           | 11.4        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/03/07 | -0.9           | 11.4        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/04/07 | -0.7           | 11.4        | 0.0         | 4.6                         | 9.3         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/05/07 | -1.9           | 6.0         | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/06/07 | -7.6           | 7.6         | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/07/07 | -2.8           | 2.8         | 0.0         | 0.3                         | 0.7         | 1.4         | 0.0            | 0.0         | 6.9         |
| 01/08/07 | 1.8            | 7.2         | 0.0         | 0.3                         | 0.7         | 2.0         | 0.0            | 0.0         | 9.9         |
| 01/09/07 | 2.5            | 11.2        | 0.0         | 0.3                         | 0.7         | 2.0         | 0.0            | 0.0         | 9.9         |
| 01/10/07 | -0.8           | 11.2        | 0.0         | 0.3                         | 0.7         | 3.8         | 0.0            | 0.0         | 9.9         |
| 01/11/07 | -8.0           | 8.0         | 0.0         | 0.6                         | 0.4         | 2.6         | 0.0            | 0.0         | 7.1         |
| 01/12/07 | 1.7            | 6.6         | 0.0         | 0.7                         | 0.3         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/13/07 | 6.5            | 8.3         | 0.0         | 0.6                         | 0.4         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/14/07 | 11.2           | 3.6         | 0.0         | 0.9                         | 0.1         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/15/07 | 3.7            | 11.2        | 0.0         | 0.3                         | 0.7         | 1.2         | 0.0            | 0.0         | 4.4         |
| 01/16/07 | 1.9            | 11.0        | 0.0         | 0.3                         | 0.7         | 2.4         | 0.0            | 0.0         | 10.4        |
| 01/17/07 | 0.9            | 10.9        | 0.0         | 0.3                         | 0.7         | 1.3         | 0.0            | 0.0         | 9.3         |
| 01/18/07 | 0.7            | 11.0        | 0.0         | 0.3                         | 0.7         | 1.3         | 0.0            | 0.0         | 5.6         |
| 01/19/07 | 0.4            | 11.2        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/20/07 | 0.5            | 11.1        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/21/07 | 0.5            | 11.2        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/22/07 | -0.4           | 11.2        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/23/07 | 1.8            | 11.2        | 0.0         | 0.3                         | 0.7         | 0.9         | 0.0            | 0.0         | 6.9         |
| 01/24/07 | 2.9            | 9.1         | 0.0         | 0.5                         | 0.5         | 5.0         | 0.0            | 0.0         | 6.8         |
| 01/25/07 | 0.0            | 11.4        | 0.0         | 0.3                         | 0.7         | 11.4        | 0.0            | 0.0         | 6.3         |
| 01/26/07 | 1.9            | 11.2        | 0.0         | 0.3                         | 0.7         | 0.5         | 0.0            | 0.0         | 0.0         |
| 01/27/07 | 1.4            | 11.6        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/28/07 | 1.8            | 11.4        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/29/07 | -3.6           | 11.2        | 0.0         | 0.3                         | 0.7         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/30/07 | -8.7           | 8.7         | 0.0         | 0.5                         | 0.5         | 0.0         | 0.0            | 0.0         | 0.0         |
| 01/31/07 | -5.1           | 5.1         | 0.0         | 1.0                         | 5.8         | 0.0         | 0.0            | 0.0         | 0.0         |
| 02/01/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.2         | 2.3            | 0.0         | 0.0         |
| 02/02/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.2         | 3.8            | 0.0         | 0.0         |
| 02/03/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.4         | 2.6            | 0.0         | 1.5         |
| 02/04/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 1.3         | 1.5            | 0.0         | 10.0        |
| 02/05/07 | 0.0            | 0.0         | 3.4         | 2.0                         | 0.0         | 1.3         | 1.5            | 0.0         | 9.9         |
| 02/06/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 1.3         | 1.7            | 0.0         | 9.9         |
| 02/07/07 | 0.0            | 0.0         | 0.0         | -6.1                        | 8.1         | 1.3         | 3.0            | 0.0         | 2.9         |
| 02/08/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 2.1         | 6.2            | 0.0         | 1.7         |
| 02/09/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.2         | 4.5            | 0.0         | 0.0         |
| 02/10/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.2         | 4.5            | 0.0         | 0.0         |
| 02/11/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.4         | 3.0            | 0.0         | 0.0         |
| 02/12/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.2         | 3.7            | 0.0         | 0.0         |
| 02/13/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.7         | 2.4            | 0.0         | 5.0         |
| 02/14/07 | 0.0            | 0.0         | 0.0         | -4.1                        | 6.1         | 2.3         | 0.9            | 0.0         | 10.0        |
| 02/15/07 | 0.0            | 0.0         | 0.0         | -4.0                        | 6.0         | 1.6         | 0.0            | 0.0         | 5.8         |
| 02/16/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.0         | 0.0            | 0.0         | 0.0         |
| 02/17/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.0         | 0.0            | 0.0         | 0.0         |
| 02/18/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.0         | 0.0            | 0.0         | 0.0         |
| 02/19/07 | 0.0            | 0.0         | 0.0         | 5.6                         | 40.6        | 1.1         | 0.0            | 0.0         | 0.0         |
| 02/20/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.7         | 0.0            | 0.0         | 6.9         |
| 02/21/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.4         | 0.0            | 0.0         | 1.4         |
| 02/22/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 10.4        | 1.4         | 0.0            | 0.0         | 0.0         |
| 02/23/07 | 0.0            | 0.0         | 0.0         | 2.0                         | 0.0         | 0.0         | 0.0            | 0.0         | 0.0         |

**Table 3-1**  
**Volume of Diluent and Recycled Water Recharged**

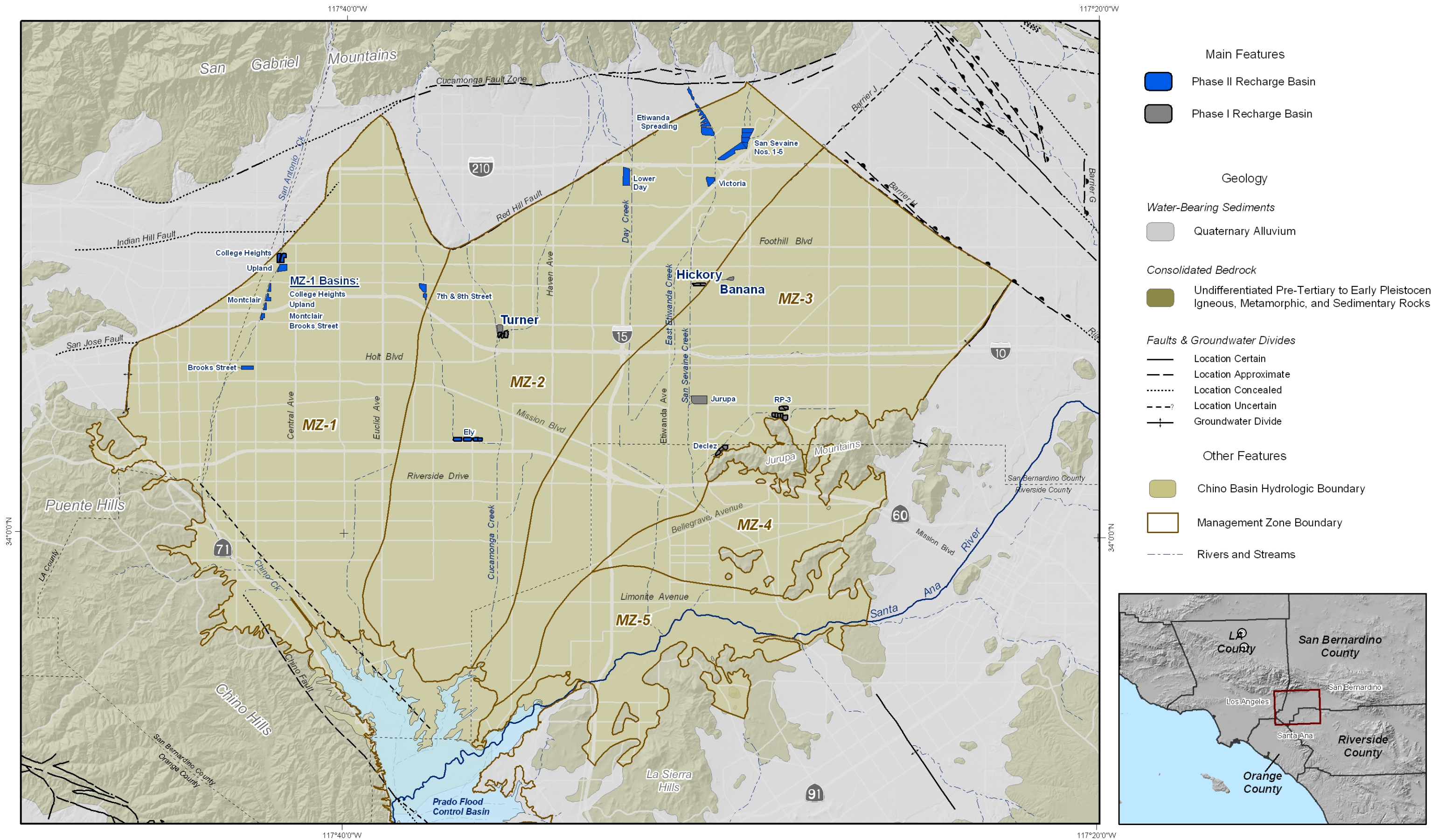
| Date               | Imported Water |              |             | Local Runoff / Storm Flow   |              |             | Recycled Water |             |              |
|--------------------|----------------|--------------|-------------|-----------------------------|--------------|-------------|----------------|-------------|--------------|
|                    | Hickory (AF)   | Banana (AF)  | Turner (AF) | Hickory <sup>(1)</sup> (AF) | Banana (AF)  | Turner (AF) | Hickory (AF)   | Banana (AF) | Turner (AF)  |
| 02/24/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 02/25/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 02/26/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 02/27/07           | 0.0            | 0.0          | 0.0         | 3.3                         | 2.5          | 0.0         | 0.0            | 0.0         | 0.0          |
| 02/28/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/01/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.1         | 0.0            | 0.0         | 4.2          |
| 03/02/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.4         | 0.0            | 0.0         | 8.9          |
| 03/03/07           | 0.0            | 0.0          | 0.0         | -5.0                        | 7.0          | 0.2         | 0.0            | 0.0         | 1.3          |
| 03/04/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/05/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/06/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/07/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 0.0          | 1.2         | 0.0            | 0.0         | 6.8          |
| 03/08/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 2.1         | 0.0            | 0.0         | 11.0         |
| 03/09/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 2.1         | 0.0            | 0.0         | 11.7         |
| 03/10/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 2.1         | 0.0            | 0.0         | 11.4         |
| 03/11/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.9         | 0.0            | 0.0         | 4.8          |
| 03/12/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/13/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/14/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.8         | 0.0            | 0.0         | 5.4          |
| 03/15/07           | 0.0            | 0.0          | 0.0         | -3.0                        | 4.0          | 2.1         | 0.0            | 0.0         | 6.8          |
| 03/16/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 3.1         | 0.0            | 0.0         | 0.0          |
| 03/17/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 3.1         | 0.0            | 0.0         | 0.0          |
| 03/18/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 3.1         | 0.0            | 0.0         | 0.0          |
| 03/19/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 3.1         | 0.0            | 0.0         | 0.0          |
| 03/20/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 3.5         | 0.0            | 0.0         | 0.2          |
| 03/21/07           | 0.0            | 0.0          | 0.0         | 2.0                         | 1.0          | 1.1         | 0.0            | 0.0         | 0.3          |
| 03/22/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/23/07           | 3.0            | 7.6          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/24/07           | 3.4            | 12.1         | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/25/07           | 2.9            | 11.9         | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/26/07           | 1.5            | 3.5          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/27/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/28/07           | -4.0           | 6.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/29/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/30/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| 03/31/07           | 0.0            | 0.0          | 0.0         | 1.0                         | 0.0          | 0.0         | 0.0            | 0.0         | 0.0          |
| <b>1Q07 Totals</b> | <b>6.9</b>     | <b>339.2</b> | <b>3.4</b>  | <b>84.3</b>                 | <b>119.1</b> | <b>83.7</b> | <b>41.6</b>    | <b>0.0</b>  | <b>239.3</b> |

Notes:

(1) Negative values indicated more water pumped from the basin that was routed to the basin.

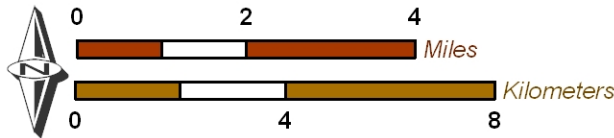
AF: Acre-Feet





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File: 20070513\_Figure\_1-01.mxd

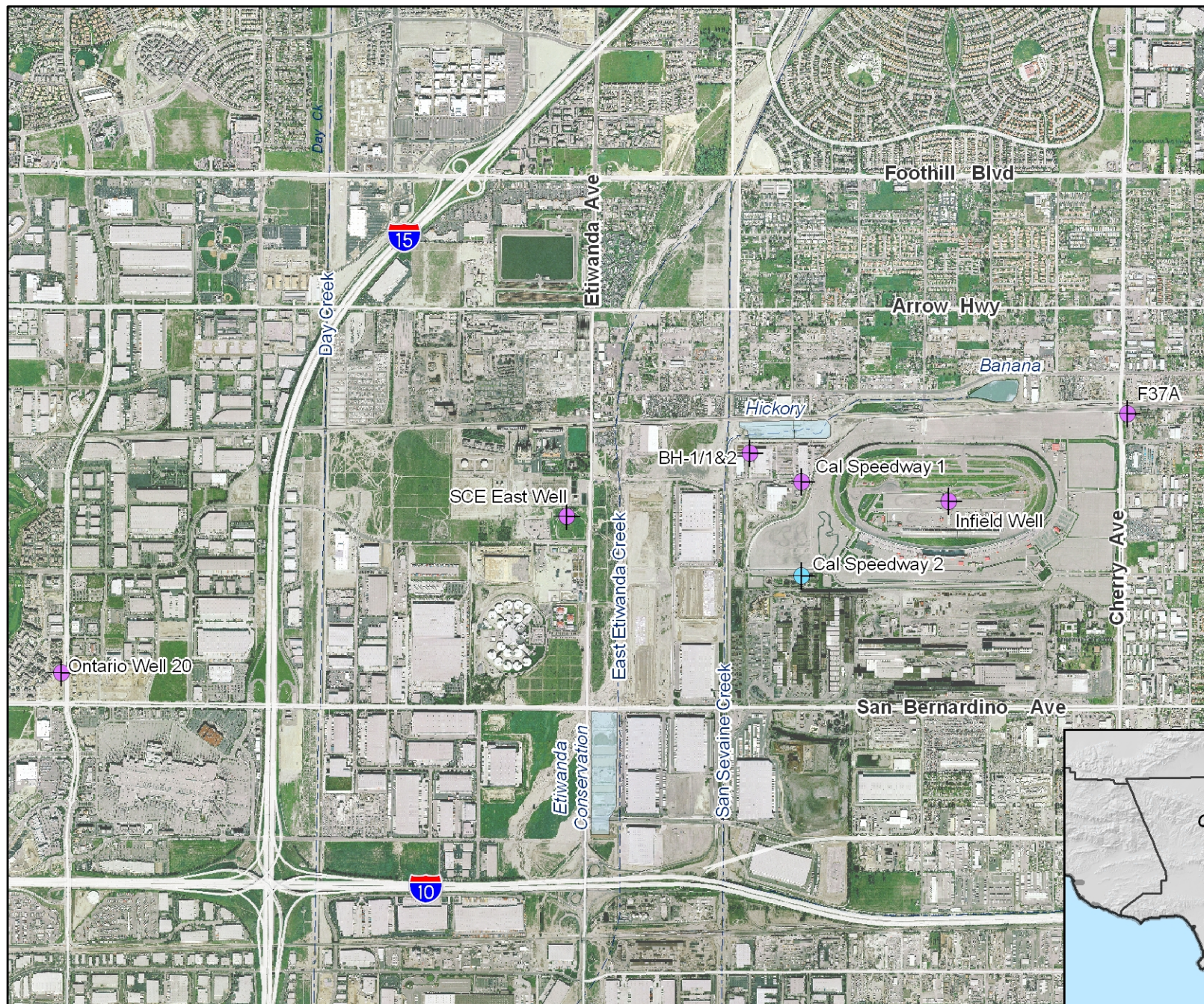


**Inland Empire**  
UTILITIES AGENCY  
Recycled Water Recharge Program  
Quarterly Monitoring Report

**Basin Locations**  
Recycled Water Recharge Basins

Figure 1-1





-  Existing Monitoring Well
-  Replacement Monitoring Well
-  Recharge Basins



**Monitoring Well Network**  
Hickory and Banana Basins

**Figure 2-1**



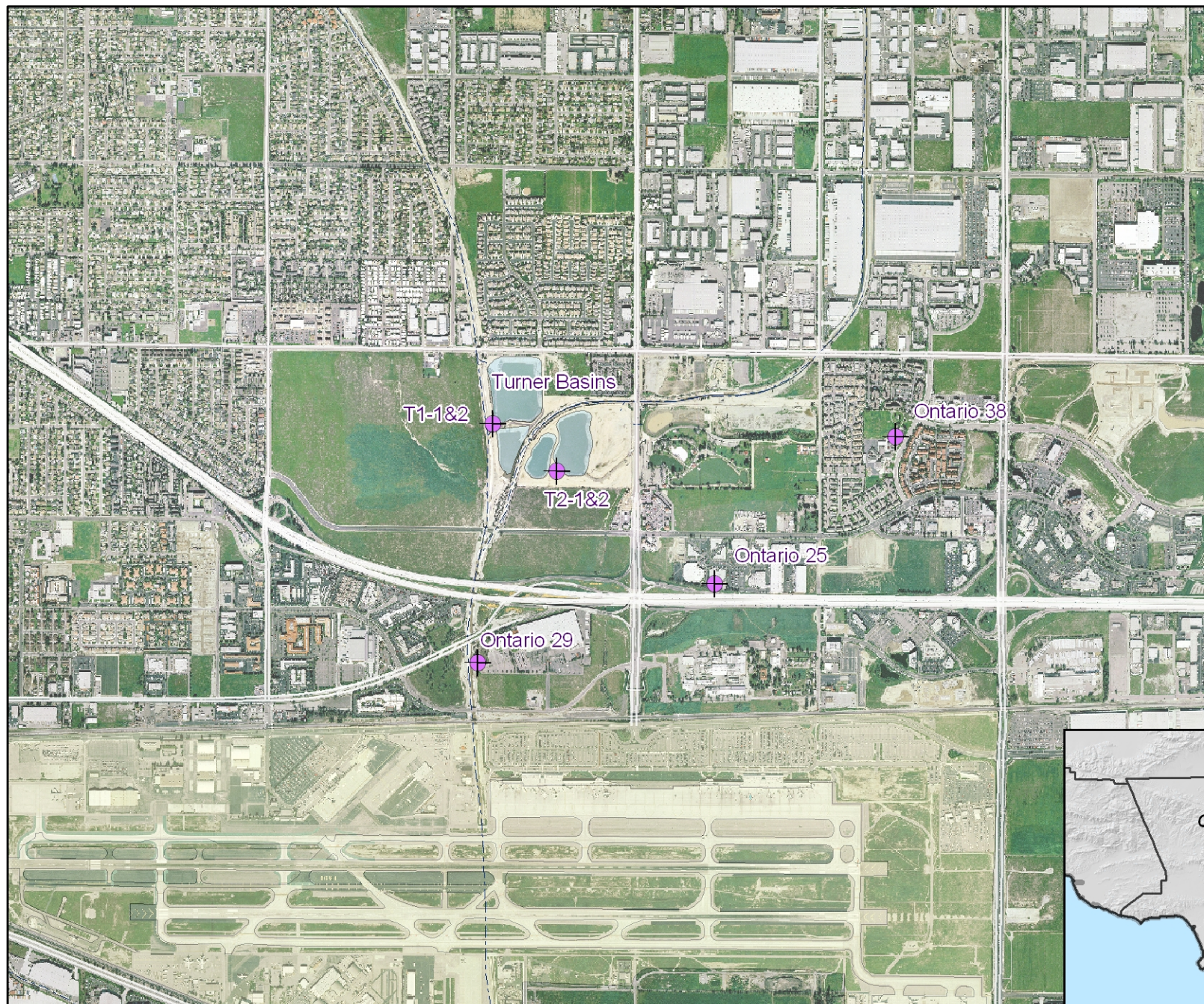
**Recycled Water Recharge Program**  
Quarterly Monitoring Report



Author: KBM  
Date: 20070513  
File: Figure\_2-1.mxd

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-  Existing Monitoring Well
-  Recharge Basins

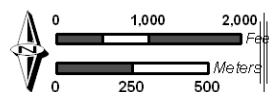


# Monitoring Well Network Turner Basins

**Figure 2-2**



Recycled Water Recharge Program  
Quarterly Monitoring Report -- 4Q06



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Date: 20070513  
File: Figure\_2-2.mxd

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## Appendix A. Watermaster Certification of Non-Pumping in the Buffer Zones





## CHINO BASIN WATERMASTER

9641 San Bernardino Road, Rancho Cucamonga, Ca 91730-4665  
Tel: 909.484.3888 Fax: 909.484.3890 www.cbwm.org

Kenneth Manning  
CEO

May 15, 2007

Regional Water Quality Control Board, Santa Ana Region

**Attention: Mr. Gerard Thibeault**

3737 Main Street, Suite 500

Riverside, California 92501-3348

**Subject: Chino Basin Recycled Water Groundwater Recharge Program  
Certification of Non-Pumping in the Buffer Zones of Banana, Hickory, and Turner Basins**

Dear Mr. Thibeault,

The Chino Basin Watermaster hereby certifies that, during the period of January through March 2007, there was no reported pumping for drinking water purposes in the buffer zones—zones that extend 500 feet and 6 months underground travel time—of the Banana, Hickory, and Turner Basins. In point of fact, there are no production wells in the buffer zones of these three basins.

If you have any questions, please do not hesitate to call me.

Best regards,

Kenneth Manning  
Chief Executive Officer