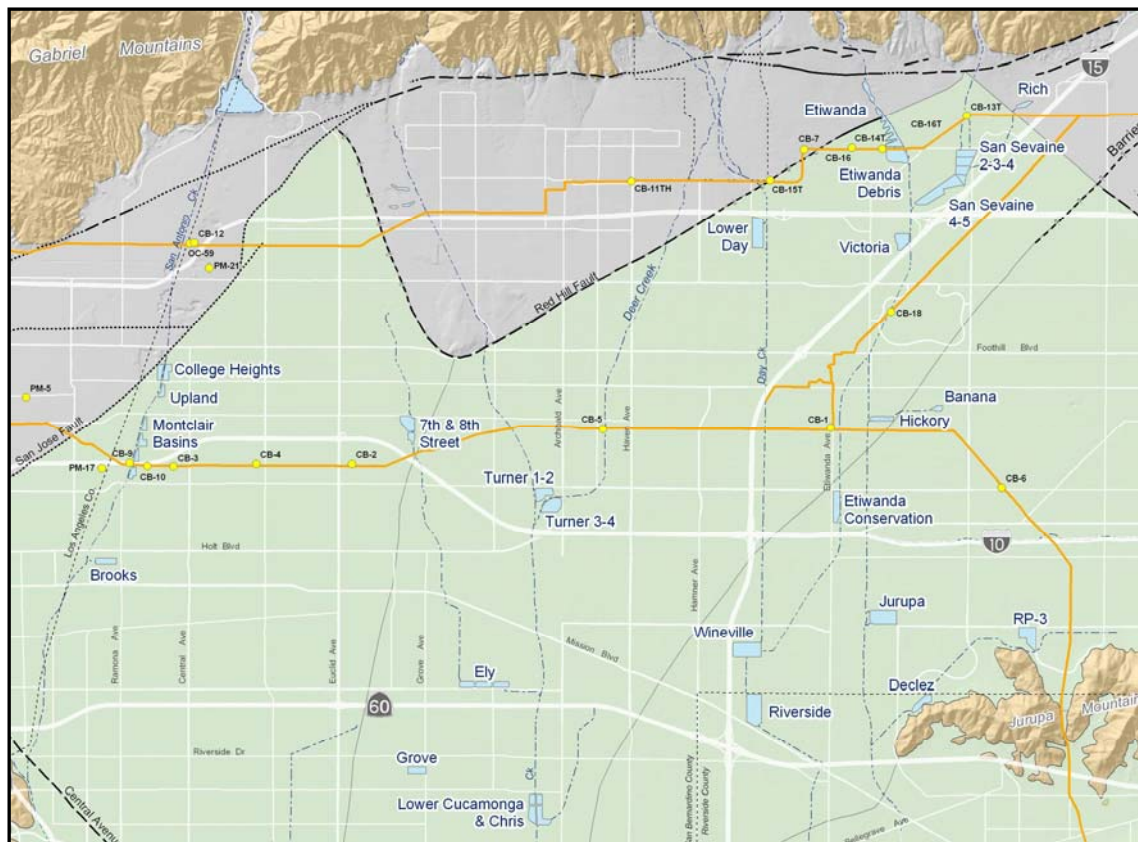


Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report July through September 2006



Prepared by:



and



November 15, 2006



Patrick O. Shields
Executive Manager of Operations

Kenneth Manning
CEO

November 15, 2006

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 April through June 2006**

Dear Mr. Thibeault,

The Inland Empire Utilities Agency (IEUA) and the Chino Basin Watermaster (Watermaster) hereby submit the *Quarterly Monitoring Report* for the third quarter of 2006 (3Q06), July through September 2006, for the *Recycled Water Groundwater Recharge Program* that is being implemented by the IEUA and Watermaster. 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. Draft 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 15th day of November 2006 at IEUA's office in Chino, California

A handwritten signature in blue ink that reads "Patrick O. Shields".

Patrick O. Shields
Executive Manager of Operations

A handwritten signature in blue ink that reads "Kenneth Manning".

Kenneth Manning
Chief Executive Officer

Chino Basin Recycled Water Groundwater Recharge Program

Quarterly Monitoring Report

April through June 2006

Prepared by:



and



November 15, 2006

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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.
- 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.

The M&RP (RWQCB, 2005b) describes the requirements for the quarterly monitoring reports. This document is the quarterly report for Third Quarter 2006 (3Q06). 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 th
April – June	August 15 th
July – September	November 15 th
October – December	February 15 th

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 3Q06, 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 3Q06; namely, RP3 and Declez.

This quarterly report contains the monitoring results for Banana, Hickory, and Turner Basin operations through the completion of 3Q06. Because compliance monitoring points have not yet been established for the Banana, Hickory, and Turner Basins, all sampling data are presented in this report. In the quarterly reports following the completion of basin Start-Up Period reports, quarterly monitoring and reporting will be limited to sampling points that are selected as compliance monitoring points as 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, lysimeter samples, and groundwater monitoring well water samples. 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 monitoring requirements for recycled water monitoring are provided in the M&RP (RWQCB, 2005b). Tables 2-1 through 2-9 list all of the requisite 3Q06 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 4Q05 through 3Q06 are summarized in Table 2-4 of this report.

For analytes with a limit specified in Tables I through III in the Order (RWQCB, 2005a), the compliance limit is included next to the result for that analyte in Tables 2-6, 2-7, and 2-9 to facilitate a comparison. In the process of selecting a recycled water sampling location that will be representative of the system blend of recycled water recharged, 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 reclamation plants. Such parameters include Total Trihalomethanes (THMs) and Total Haloacetic Acids (HAA5). Over the past 12 months, THMs have ranged between 26 and 241 mg/L from RP1 and have averaged approximately 126 mg/L. Rather than providing inconsistent values for these parameters, the IEUA conducted sampling of the surface water and pore water in the 25-foot lysimeters at Hickory Basin East Cell. The samples that were collected at the basin should 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 the basins, only odor exceeded limits of the Order during 3Q06. Additional sampling of stormwater from the basin and lysimeters has indicated that a slight odor is common to the formation.

Samples for THMs and HAA5 were collected from the 25-foot lysimeter on August 31 at the Hickory Basin East Cell; the 25-foot lysimeter is considered the future compliance point for these constituents. The result for THMs from the 25-foot lysimeter sample was 37 µg/L, and the result for HAA5 was <1 µg/L. A summary of this data can be found in Table 2-6. Representative samples collected from the basins for THMs were within permitted limits. Thus compliance for THMs was achieved prior to delivered recycled water reaching 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 3Q06, as summarized in Tables 2-1 through 2-3.

2.2 Diluent Water

In 3Q06, State Water Project (SWP) water was delivered to Hickory Basin and the Turner Basins during July and only to the Turner Basins in September. No SWP water was delivered to Banana Basin during 3Q06. Table 2-10 lists the water quality of the SWP water. These data were reported by the LaVerne laboratory of the Metropolitan Water District of Southern California.

As shown in Table 3-1, during 3Q06, some local runoff was collected in the Hickory and Turner Basins. No local runoff was collected at Banana Basin during 3Q06.

2.3 Basin and Lysimeter Samples

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

- 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



These data are summarized in Tables 2-11 through 2-19. The tables include data for the Banana, Hickory, and Turner Basins and are organized by analyte group (TOC, Nitrogen Species). Each table lists the result by lysimeter name, depth, and date.

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 screened in two zones: 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, sampling within BH-1/1 will begin.

Groundwater quality within the vicinity of Turner Basin is monitored by sampling a network of five wells, including two nested wells (Figure 2-2). T-1 is screened in two zones: 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 screened in two zones: T2/1, from 350-370 feet below ground surface; and T-2/2, from 392 – 412 feet below ground surface. T-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, sampling within T-1/1 will begin.

Groundwater monitoring results are presented in Table 2-20. Based on estimated travel times in 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. The IEUA began recharging recycled water in Banana Basin and Hickory Basin in July 2005 and in Turner Basin during July 2006. The 4Q05 increase in EC results indicated that BH-1 may have received some recycled water recharge indicating a travel time of 5 months to this location. EC is listed in Table 2-20 as Specific Conductance. However, the 1Q06 EC data for BH-1 showed a decrease in EC, and as such did not continue to indicate recycled water at the well. Groundwater quality results for 3Q06 at BH-1/2, T-1, and T-2 show a background condition for EC as do the other area monitoring wells. All other constituents analyzed from the monitoring wells during 3Q06 remained below the MCL.



3. Recharge Operations

IEUA's Groundwater Recharge Coordinator recorded the daily volumes of water recharged at 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. The volumes of diluent water, recycled water, and/or local runoff captured at these basins are listed in Table 3-1.

Banana Basin

Recycled water was delivered periodically from the Whittram force main. No imported water was delivered to Banana Basin. No local runoff or storm flow occurred tributary to Banana Basin during 3Q06.

Hickory Basin

Recycled water was delivered periodically from the Whittram force main. Perennial local runoff was captured in Hickory Basin from San Sevaine Channel during 3Q06. No Stormwater flows occurred tributary to Hickory Basin during 3Q06.

Turner Basin

During 3Q06, the Start-Up Period for Turner Basin was initiated. Recycled water was delivered periodically from the recycled water pipeline in 4th street. Local runoff was captured in Turner Basin from Deer Creek and Cucamonga Creek Channels during 3Q06. Recycled water commingles with local runoff in Deer Creek en route to Turner Basin. No stormwater flows occurred tributary to Turner Basins during 3Q06.



4. Operational Problems Encountered

4.1 Regional Plants RP-1 and RP-4

No operational problems encountered this quarter.

4.2 Recharge Operations

Recycled water recharge in Turner Basin was temporarily suspended to investigate sand and construction debris that was identified in the pipeline.

4.3 Lysimeter Sampling

No operational problems encountered this quarter.

4.4 Monitoring Well Sampling

No operational problems encountered this quarter.



5. Preventive and/or Corrective Actions

5.1 Regional Plants RP-1 and RP-4

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

5.2 Recharge Operations

The recycled water pipeline feeding Turner Basin was cleaned by a construction contractor and the pipeline should return to service in 4Q06.

5.3 Lysimeter Sampling

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

5.4 Monitoring Well Sampling

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



6. Certification of Non-Pumping in the Buffer Zones

The 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 3Q06. 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 following is the proposed text for a letter from the SBCDEHS to the IEUA, DHS, and RWQCB.

San Bernardino County Department of Environmental Health Services (SBCDEHS) has reviewed the recycled water use permit conditions placed on Inland Empire Utilities Agency (IEUA) by California Department of Health Services (DHS) and the Santa Ana Regional Water Quality Control Board (RWQCB). IEUA's use permit contains conditions that IEUA act to prevent the permitting of new drinking water wells within 500 feet of its recharge basin that will use recycled water. As the agency responsible for reviewing and issuing permits for construction of drinking water wells in San Bernardino County, SBCDEHS agrees to decline new well permits within 500 feet of IEUA recharge basins that will utilize recycled water for groundwater recharge.

SBCDEHS will add a review procedure for new well permit applications that will include checking the proposed location of a new drinking water well against a list of parcels that abut IEUA recharge basins and their 500-foot buffers. If a well falls within an abutting parcel, SBCDEHS will review the proposed well location using maps of the basins and buffers. SBCDEHS will not issue permits for wells falling inside the buffer. If the well falls too near the buffer boundary for SBCDEHS to determine the relationship of the proposed well location to the buffer boundary, SBCDEHS will defer to 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, SBCDEHS will contact and provide the IEUA Groundwater Recharge Coordinator with a copy of the well permit application and a time line for completion of IEUA's review. Following its review, IEUA will notify SBCDEHS in writing of its findings. As desired by these agencies, IEUA will notify CDHS and RWQCB of well permit applications that it recommends be decline due to their location being determined to fall with a 500-foot buffer.

SBCDEHS will incorporate these outlined procedures upon receipt from IEUA of a list of parcels abutting each recharge basin and a series of the maps showing the recharge basins, buffers, and township / range / section parcels adjacent the basins and buffers.

Although this letter has not yet been finalized, 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 was used in the permitting process.



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 – April 2006.*
- Metropolitan Water District of Southern California. 2006. *Table D. Monthly Analyses of the District Water Supplies – May 2006.*
- Metropolitan Water District of Southern California. 2006. *Table D. Monthly Analyses of the District Water Supplies – June 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 July 2006: Turbidity, TOC, Ammonia-N, Nitrate-N, TKN, TN, TKN+Nitrate, TIN, pH, EC, TDS, Hardness, and Coliform

Date	RP1 Effluent														RP4 Effluent														
	Turbidity ¹	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₂ -N	TIN	pH ¹	EC	TDS	Hardness	Coliform	Turbidity ¹	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₂ -N	TIN	pH ¹	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	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
7/1/2006	0.9									offline				<2	0.4	6.4	<0.1	2.1	<0.01					2.1	7.10	715			ns
7/2/2006	0.9									offline				<2	0.3	6.5	<0.1	1.9	<0.01	0.9	2.7	0.9	1.9	7.10	720			<2	
7/3/2006	0.8									offline				<2	0.3	6.8	<0.1	1.8	<0.01				1.8	7.10	710			<2	
7/4/2006	1.0									offline				<2	0.2	6.7	<0.1	2.4	<0.01				2.4	7.20	735	448			<2
7/5/2006	1.0	7.3								7.17	730	464		<2	0.2	6.7	<0.1	3.4	<0.01				3.4	7.20	720			<2	
7/6/2006	0.9	7.2	<0.1	6.7	<0.01	1.9	8.6	1.9	6.7	7.84	710			<2	0.2	7.6	<0.1	1.9	<0.01	1.5	3.4	1.5	1.9	7.20	710			<2	
7/7/2006	0.8	6.7								7.85	710			<2	0.2	7.4	<0.1	1.6	<0.01				1.6	7.20	705			<2	
7/8/2006	0.8	6.4								7.85	700			<2	0.2	7.3	<0.1	1.2	<0.01				1.2	7.20	720			<2	
7/9/2006	0.7	6.9	<0.1	7.0	<0.01	1.2	8.1	1.2	7.0	7.80	695			<2	0.2	7.5	<0.1	0.8	<0.01	1.1	1.8	1.1	0.8	7.20	735			<2	
7/10/2006	0.7	6.5								7.86	695			<2	0.2	7.8	<0.1	0.7	<0.01				0.7	7.30	750			<2	
7/11/2006	0.7	6.5	<0.1	7.4	0.23	2.3	9.9	2.5	7.7	7.88	720	460	123	<2	0.3	7.4	<0.1	0.8	<0.01	2.2	3.0	2.2	0.8	7.30	730	448	104	<2	
7/12/2006	0.7	5.4								7.89	705			<2	0.4	6.3	<0.1	0.6	<0.01				0.6	7.40	705			<2	
7/13/2006	0.7	5.7	<0.1	8.3	<0.01	2.3	10.6	2.3	8.3	7.82	715			<2	0.6	6.4	<0.1	0.7	<0.01	2.3	3.0	2.3	0.7	7.30	695			<2	
7/14/2006	0.7	5.5								7.85	705			<2	0.7	6.1	<0.1	1.9	<0.01				1.9	7.30	700			<2	
7/15/2006	0.8	5.5								7.89	700			<2	0.7	6.0	<0.1	2.2	<0.01				2.2	7.20	705			<2	
7/16/2006	0.8	5.3	0.1	5.8	<0.01	2.7	8.5	2.7	5.9	7.90	690			<2	0.7	5.9	<0.1	1.7	0.27	1.5	3.4	1.7	2.0	7.30	700			<2	
7/17/2006	0.8	5.5								7.90	685			<2	0.4	6.2	<0.1	2.4	<0.01				2.4	7.30	725			<2	
7/18/2006	0.7	5.4	<0.1	6.7	<0.01				6.7	7.87	700	458		2	0.4	6.0	<0.1	3.7	<0.01				3.7	7.30	715	458		<2	
7/19/2006	0.7	5.2								7.88	705			<2	0.4	6.4	<0.1	2.3	0.25				2.6	7.30	710			<2	
7/20/2006	0.7	5.1	<0.1	7.4	0.05	0.7	8.1	0.7	7.4	7.89	700			2	0.7	6.4	<0.1	1.9	0.17	0.2	2.3	0.4	2.1	7.30	705			<2	
7/21/2006	0.7	4.9								7.90	700			<2	0.7	6.5	<0.1	1.3	<0.01				1.3	7.40	710			<2	
7/22/2006	0.8	5.0								7.91	690			<2	0.7	6.5	<0.1	0.7	<0.01				0.7	7.40	705			<2	
7/23/2006	0.8	4.9	<0.1	6.8	<0.01	0.9	7.7	0.9	6.8	7.90	685			<2	0.6	6.5	<0.1	0.8	<0.01	0.7	1.4	0.7	0.8	7.50	710			<2	
7/24/2006	0.9	5.4								7.86	725			<2	0.7	6.4	<0.1	1.0	<0.01				1.0	7.50	715			<2	
7/25/2006	0.7	6.0	0.2	6.5	<0.01					7.86	720	458		2	0.6	6.4	<0.1	1.5	<0.01				1.5	7.50	710	444		<2	
7/26/2006	0.6	5.8								7.93	715			<2	0.5	5.9	<0.1	2.2	0.19				2.4	7.40	710			<2	
7/27/2006	0.6	5.4	0.1	5.7	0.18	1.5	7.4	1.7	6.0	7.92	700			<2	0.5	6.0	<0.1	1.6	0.05	1.1	2.8	1.2	1.7	7.40	710			<2	
7/28/2006	0.6	5.3								7.97	700			<2	0.5	6.0	<0.1	1.9	0.22				2.1	7.40	720			<2	
7/29/2006	0.6	5.2								7.98	705			<2	0.6	6.1	<0.1	1.7	<0.01				1.7	7.40	735			<2	
7/30/2006	0.5	5.4	0.2	6.0	<0.01	1.5	7.5	1.5	6.2	7.97	705			<2	0.7	6.8	0.1	1.7	<0.01	0.6	2.3	0.6	1.8	7.40	745			<2	
7/31/2006	0.4	5.6								7.97	700			2	0.7	6.9	<0.1	1.1	<0.01				1.1	7.50	740			<2	
Average	0.7	5.7	0.1	6.8	<0.01	1.7	8.5	1.7	6.9	7.9	704	460	123	<2	0.5	6.6	0.1	1.7	<0.01	1.20	2.6	1.3	1.7	7.3	716	450	104	<2	
Min	0.5	4.9	0.1	5.7	<0.01	0.7	7.4	0.7	5.9	7.2	685	458	123	<2	0.2	5.9	<0.1	<0.1	<0.01	0.21	1.4	0.4	0.6	7.1	695	444	104	<2	
Max	1.0	7.3	0.2	8.3	0.23	2.7	10.6	2.7	8.3	8.0	730	464	123	2	0.7	7.8	0.1	3.7	<0.01	2.33	3.4	0.4	3.7	7.5	750	458	104	<2	

¹Turbidity 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 August 2006: Turbidity, TOC, Ammonia-N, Nitrate-N, TKN, TN, TKN+Nitrate, TIN, pH, EC, TDS, Hardness, and Coliform

Date	RP1 Effluent														RP4 Effluent														
	Turbidity ²	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₂ -N	TIN	pH ²	EC	TDS	Hardness	Coliform	Turbidity ²	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₂ -N	TIN	pH ²	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	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	
8/1/2006	0.5	5.7	<0.1	6.6	<0.01				6.6	7.97	700	466	126	4	0.6	6.8	<0.1	1.3	<0.01					1.3	7.50	735	458	117	<2
8/2/2006	0.5	5.3								7.97	700			2	0.6	6.4	<0.1	1.4	<0.01					1.4	7.50	720			<2
8/3/2006	0.5	5.6	<0.1	6.6	<0.01	1.1	7.7	1.1	6.6	7.97	715			<2	0.7	6.4	<0.1	1.6	<0.01	1.0	2.5	1.0	1.6	7.40	710			<2	
8/4/2006	0.5	5.4								7.97	720			<2	0.6	6.1	<0.1	2.5	<0.01					2.5	7.50	720			<2
8/5/2006	0.5	5.3								7.94	715			<2	0.5	6.1	<0.1	3.0	<0.01					3.0	7.50	720			<2
8/6/2006	0.4	5.2	<0.1	5.7	<0.01	0.5	6.2	0.5	5.7	7.98	710			<2	0.5	6.5	<0.1	3.0	<0.01	0.6	3.6	0.6	3.0	7.50	730			<2	
8/7/2006	0.6	5.4								7.94	705			<2	0.5	6.5	<0.1	2.5	<0.01					2.5	7.50	730			<2
8/8/2006	0.8	5.9	0.3	4.2	<0.01				4.5	7.97	715	452		<2	0.5	6.6	<0.1	1.9	<0.01					1.9	7.50	720	454		<2
8/9/2006	1.0	5.9								7.99	720			<2	0.4	6.4	<0.1	1.1	<0.01					1.1	7.50	720			<2
8/10/2006	1.1	6.0	<0.1	4.7	<0.01	2.7	7.4	2.7	4.7	8.00	720			<2	0.4	6.5	<0.1	1.9	<0.01	2.7	4.5	2.7	1.9	7.50	715			<2	
8/11/2006	0.9	5.7								8.00	715			<2	0.4	6.5	<0.1	2.1	<0.01					2.1	7.50	725			<2
8/12/2006	0.9	6.0								8.03	715			<2	0.4	6.6	<0.1	1.9	<0.01					1.9	7.50	725			<2
8/13/2006	0.9	6.4	<0.1	5.2	<0.01	1.0	6.2	1.0	5.2	8.03	725			<2	0.5	6.8	<0.1	1.9	<0.01	1.2	3.1	1.2	1.9	7.50	735			<2	
8/14/2006	0.7	6.3								8.06	710			<2	0.6	6.9	<0.1	0.7	<0.01					0.7	7.50	750			<2
8/15/2006	0.6	5.7	<0.1	4.8	<0.01					8.06	715	462		<2	0.6	6.5	<0.1	0.9	<0.01					0.9	7.50	740	452		<2
8/16/2006	0.5	5.4								8.04	705			<2	0.7	6.3	<0.1	1.3	<0.01					1.3	7.50	725			<2
8/17/2006	0.5	5.1	<0.1	5.7	<0.01	1.5	7.2	1.5	5.7	8.02	705			<2	0.8	6.2	<0.1	1.7	<0.01	1.6	3.2	1.6	1.7	7.40	725			<2	
8/18/2006	0.6	5.1								7.99	710			<2	0.8	6.0	<0.1	1.7	<0.01					1.7	7.40	720			<2
8/19/2006	0.6	5.2								8.01	705			<2	0.8	6.1	<0.1	1.5	<0.01					1.5	7.50	720			<2
8/20/2006	0.6	5.2	<0.1	6.2	<0.01	0.6	6.7	0.6	6.2	8.03	710			<2	0.7	6.3	<0.1	2.0	<0.01	0.7	2.7	0.7	2.0	7.50	735			<2	
8/21/2006	0.7	5.4								8.01	715			<2	0.7	6.4	<0.1	2.1	<0.01					2.1	7.50	740			<2
8/22/2006	0.7	5.4	0.3	5.1	<0.01	0.7	5.8	0.7	5.4	8.02	715	450		<2	0.7	6.4	<0.1	1.6	<0.01	1.0	2.6	1.0	1.6	7.40	735	452		<2	
8/23/2006	0.7	4.9								8.00	715			<2	0.4	6.1	<0.1	1.4	<0.01					1.4	7.40	720			<2
8/24/2006	0.6	5.1	0.2	5.9	<0.01				6.0	7.98	715			2	0.5	5.9	0.1	1.0	<0.01					1.1	7.50	720			<2
8/25/2006	0.6	5.0								7.97	725			<2	0.4	5.8	<0.1	0.6	<0.01					0.6	7.50	725			<2
8/26/2006	0.6	4.9								7.98	715			<2	0.4	5.8	<0.1	0.6	<0.01					0.6	7.50	725			<2
8/27/2006	0.5	5.0	<0.1	6.7	<0.01	1.6	8.3	1.6	6.7	7.96	715			<2	0.4	6.1	<0.1	0.7	<0.01	1.0	1.7	1.0	0.7	7.50	735			<2	
8/28/2006	0.6	5.1								7.97	695			<2	0.5	6.3	<0.1	0.4	<0.01					0.4	7.60	725			<2
8/29/2006	0.6	5.0	<0.1	6.6	<0.01					8.03	695	452		<2	0.6	6.3	<0.1	0.8	<0.01					0.8	7.50	730	448		<2
8/30/2006	0.6	4.8								7.96	685			<2	0.5	6.3	<0.1	0.7	<0.01					0.7	7.50	690			<2
8/31/2006	0.7	5.0	<0.1	5.2	<0.01	1.4	6.6	1.4	5.2	7.91	700			<2	0.5	6.2	<0.1	1.2	<0.01	1.2	2.4	1.2	1.2	7.50	720			<2	
Average	0.7	5.4	0.2	5.7	<0.01	1.2	6.9	1.2	5.7	7.99	710	456	126	<2	0.6	6.3	<0.1	1.5	<0.01	1.2	2.9	1.2	1.5	7.5	725.32	453	117	<2	
Min	0.4	4.8	<0.1	4.2	<0.01	0.5	5.8	0.5	4.5	7.91	685	450	126	<2	0.4	5.8	<0.1	0.4	<0.01	<0.01	1.7	1.0	0.4	7.4	690.00	448	117	<2	
Max	1.1	6.4	0.3	6.7	0.00	2.7	8.3	2.7	6.7	8.06	725	466	126	4	0.8	6.9	0.1	3.0	<0.01	2.7	4.5	2.7	3.0	7.6	750.00	458	117	<2	

²Turbidity 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 September 2006: Turbidity, TOC, Ammonia-N, Nitrate-N, TKN, TN, TKN+Nitrate, TIN, pH, EC, TDS, Hardness, and Coliform

Date	RP1 Effluent													RP4 Effluent														
	Turbidity ¹	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₃ -N	TIN	pH ¹	EC	TDS	Hardness	Coliform	Turbidity ¹	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-NO ₃ -N	TIN	pH ¹	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	
9/1/2006	0.6								8.0				2	0.5	6	<0.1	1.1	<0.01					1.1	7.4	730			<2
9/2/2006	0.6								nd				<2	0.5	6	<0.1	1.1	<0.01					1.1	7.4	745			<2
9/3/2006	0.7								nd				<2	0.6	6	<0.1	1.6	<0.01	1.0	2.6	1.0	1.6	7.4	745			<2	
9/4/2006	0.7								nd				2	0.6	7	<0.1	0.6	<0.01				0.6	7.4	730			<2	
9/5/2006	0.8								nd				<2	0.6	7	<0.1	0.7	<0.01				0.7	7.5	760	462	121	<2	
9/6/2006	0.8	5.6	<0.1			1.1			8.4	725		146	<2	0.7	7	<0.1	1.4	<0.01				1.4	7.5	745			<2	
9/7/2006	0.7	5.4	0.2	5.3	0.04	1.0	6.3	1.0	5.5	8.0	720		<2	0.7	6	0	1.9	<0.01	1.2	3.1	1.2	2.0	7.4	725			<2	
9/8/2006	0.6	5.1							8.0	715			<2	0.7	6	<0.1	2.5	<0.01				2.5	7.4	725			<2	
9/9/2006	0.6								8.1				<2	0.8	6	<0.1	2.3	<0.01				2.3	7.5	740			<2	
9/10/2006	0.6								nd				<2	0.6	6	<0.1	1.7	<0.01	1.3	3.0	1.3	1.7	7.5	750			<2	
9/11/2006	0.9	5.4							8.3	725			<2	0.6	6	<0.1	1.9	<0.01				1.9	7.5	740			<2	
9/12/2006	0.5	5.1	<0.1	6.6	<0.01			6.6	8.0	720	446		<2	0.6	6	<0.1	2.6	<0.01				2.6	7.5	720	422		<2	
9/13/2006	0.5	4.8							8.0	725			<2	0.6	6	0.1	2.8	<0.01				3.0	7.4	705			<2	
9/14/2006	0.4	5.1	0.2	5.1	0.05	2.7	7.9	2.7	5.3	8.0	720		<2	0.7	7	0	2.8	<0.01	1.2	4.0	1.2	2.9	7.5	720			<2	
9/15/2006	0.4	5.4							8.1	730			<2	0.7	7	<0.1	2.4	<0.01				2.4	7.5	730			<2	
9/16/2006	0.5	5.7							8.1	735			<2	0.8	7	<0.1	1.8	<0.01				1.8	7.5	730			<2	
9/17/2006	0.6	5.6	<0.1	5.8	<0.01	1.4	7.2	1.4	5.8	8.1	730		<2	0.8	6	<0.1	2.0	<0.01	1.3	3.3	1.3	2.0	7.5	740			<2	
9/18/2006	0.6	5.8							8.1	715			<2	0.7	7	<0.1	1.8	<0.01				1.8	7.5	740			<2	
9/19/2006	0.5								8.1				<2	0.7	7	<0.1	3.6	<0.01				3.6	7.5	730	442		<2	
9/20/2006	0.4	5.1				1.1			8.3	720			<2	0.6	7	<0.1	5.0	<0.01				5.0	7.5	730			<2	
9/21/2006	0.4	5.4	<0.1	7.2	<0.01	1.3	8.5	1.3	7.2	8.0	700		<2	0.6	7	<0.1	5.1	<0.01	0.9	6.0	0.9	5.1	7.5	715			<2	
9/22/2006	0.4	5.2							8.1	720			<2	0.5	7	<0.1	4.4	<0.01				4.4	7.5	730			<2	
9/23/2006	0.5	5.3							8.1	715			<2	0.6	6	<0.1	3.1	<0.01				3.1	7.4	720			<2	
9/24/2006	0.4	5.4	<0.1	5.6	<0.01	1.6	7.3	1.6	5.6	8.1	725		<2	0.5	6	<0.1	3.0	<0.01	0.8	3.8	0.8	3.0	7.4	720			<2	
9/25/2006	0.5	5.9							8.0	735			<2	0.6	6	<0.1	3.8	<0.01				3.8	7.5	720			<2	
9/26/2006	0.5	5.8	<0.1	6.8	<0.01			6.8	8.1	725	344		<2	0.5	6	<0.1	4.5	<0.01				4.5	7.5	725	444		<2	
9/27/2006	0.5	5.0							8.1	710			<2	0.6	6	<0.1	5.6	<0.01				5.6	7.4	710			<2	
9/28/2006	0.4	4.9	<0.1	8.4	<0.01	1.6	10.0	1.6	8.4	8.0	705		<2	0.9	6	<0.1	3.8	<0.01	0.9	4.7	0.9	3.8	7.4	710			<2	
9/29/2006	0.4	4.9							8.0	710		2	0.7	6	<0.1	1.1	<0.01					1.1	7.4	710			<2	
9/30/2006	0.4	4.9							8.1	700			<2	0.5	6	<0.1	0.8	<0.01				0.5	7.5	705			<2	
Average	0.6	5.3	0.2	6.3	<0.01	1.5	7.9	1.6	6.4	8.1	719	395	146	<2	0.6	6.4	<0.1	2.6	<0.01	1.1	3.8	1.1	2.56	7.5	728	443	121	<2
Min	0.4	4.8	<0.1	5.1	<0.01	1.0	6.3	1.0	5.3	8.0	700	344	146	<2	0.5	5.8	<0.1	0.6	<0.01	0.8	2.6	0.8	0.47	7.4	705	422	121	<2
Max	0.9	5.9	0.2	8.4	0.05	2.7	10.0	2.7	8.4	8.4	735	446	146	2	0.9	7.0	0.1	5.6	<0.01	1.3	6.0	1.3	5.64	7.5	760	462	121	<2

¹Turbidity 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.

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

Date	RP1 Effluent														RP4 Effluent													
	Turbidity	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-N O ₃ -N	TIN	pH	EC	TDS	Hardness	Coliform	Turbidity	TOC	NH ₃ -N	NO ₃ -N	NO ₂ -N	TKN	TN	TKN-N O ₃ -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, 23, 240	2, 5, 10	16			1		10	5	8	6<pH<9		550		2, 23, 240
Average 4Q05	0.9	7.6	0.2	6.7	0.02	1.1	6.9	1.1	7.1	7.42	718	459	133	2	1.0	10.4	0.1	0.8	0.23	1.1	1.9	1.1	1.0	7.09	753	464	128	2
Min	0.6	5.6	0.1	4.6	0.01	0.5	5.1	0.5	4.7	7.29	680	436	131	2	0.4	7.0	0.1	0.1	0.02	0.2	1.1	0.2	0.0	7.00	700	442	124	2
Max	1.5	11.0	1.0	12.0	0.06	1.9	9.3	1.9	12.0	7.63	755	478	136	4	1.9	15.7	0.4	2.6	1.00	2.0	3.3	2.0	3.3	7.20	830	492	130	4
Average 1Q06	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	0.0	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
Average 2Q06	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
Average 3Q06	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
Running Average	0.9	6.9	0.2	8.0	0.05	1.3	9.0	1.3	8.1	7.66	716	453	131	2	0.7	8.6	0.1	2.1	0.16	1.1	3.2	1.1	2.1	7.11	738	458	121	3
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	0.0	6.70	645	400	104	<2
Max	1.5	11.3	1.0	12.9	0.23	2.7	14.9	2.7	13.0	8.43	800	494	146	4	2.7	15.7	2.1	17.2	1.00	2.9	17.2	2.9	17.3	7.60	900	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:

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.

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. 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.

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
TDS and TIN Analysis

	Agency-Wide Effluent TDS Flow-weighted Average	Agency-wide TIN			
		Discharge		Discharge Limit	
	12-Month Running Average	Flow wt.	Total	Flow wt.	Total
Mo-Yr	mg/L	mg/L	lbs/day	mg/L	lbs/day
Jan-05	492	7.3	3,780	12.2	6,260
Feb-05	493	8.4	4,020	12.3	5,870
Mar-05	495	7.5	3,260	12.5	5,410
Apr-05	500	6.9	2,820	12.5	5,120
May-05	500	6.7	2,980	12.3	5,520
Jun-05	501	7.0	3,080	12.3	5,450
Jul-05	498	5.4	2,370	12.4	5,410
Aug-05	495	5.9	2,350	12.6	5,030
Sep-05	494	5.4	2,240	12.5	5,160
Oct-05	493	5.5	2,430	12.3	5,470
Nov-05	491	5.5	2,470	12.3	5,500
Dec-05	488	8.4	3,830	12.3	5,640
Jan-06	488	10.0	4,650	12.3	5,670
Feb-06	486	9.1	3,970	12.4	5,400
Mar-06	482	8.9	4,370	12.2	5,970
Apr-06	476	7.8	3,550	12.4	5,610
May-06	471	8.3	3,470	12.5	5,210
Jun-06	468	6.5	2,450	12.5	4,700
Jul-06	469	6.8	2,260	8.0	4,180
Aug-06	470	5.9	1,910	8.0	3,990
Sep-06	470	6.5	2,100	8.0	4,060
12-Month Average	480	7.4	3,122	11.3	5,117
Minimum	468	5.5	1,910	8.0	3,990
Maximum	493	10.0	4,650	12.5	5,970

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.

The RP1/RP4 limit is as follows: "The 12-month average total inorganic nitrogen concentration for flows up to 34.4 mgd shall not exceed 13 mg/L and for flows exceeding 34.4 mgd shall not exceed 10 mg/L"



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

Chemical	Order Limit	4Q05 Result ⁽¹⁾	1Q06 Result ⁽¹⁾	2Q06 Result ⁽¹⁾	3Q06 Result ⁽¹⁾	4-Quarter Running Average	Units	Method
Oil & Grease (Total)		<2	<2	<2	<2	<2	mg/L	EPA 1664
Aluminum ⁽²⁾	1000	<70	<25	39	<25	<40	µg/L	EPA 200.7
Antimony	6	<1	<0.5	<0.5	<0.5	<0.6	µg/L	EPA 200.8
Arsenic	10	<1	<2	<2	<2	<1.75	µg/L	EPA 200.8
Asbestos by TEM - >10 microns	7	<1.98	<1	<0.8	<1.1	<2.18	MFL	ML/EPA 100.2
Barium	1000	16	18	13	14	15.3	µg/L	EPA 200.7
Beryllium	4	<1	<0.5	<0.5	<0.5	<0.6	µg/L	EPA 200.7
Cadmium	5	<1	<0.25	<0.25	<0.25	<0.4	µg/L	EPA 200.7
Chromium	50	1	8.8	0.6	1.7	3.0	µg/L	EPA 200.7
Cyanide	0.15	<0.005	0.003	<0.005	0.004	<0.004	mg/L	SM 4500-CN E
Fluoride	2	0.2	0.2	0.3	0.3	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	2.0	µg/L	EPA 200.7
Selenium	50	<5	2	<2	<2	<2.75	µg/L	EPA 200.8
Thallium	2	<1	<1	<1	<1	<1	µg/L	EPA 200.8
Volatile Organic Compounds								
Benzene	1	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Carbon tetrachloride	0.5	<0.3	<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	<1	<0.5	<0.5	<0.5	<0.6	µg/L	EPA 524.2
1,2-Dichloroethane	0.5	<0.3	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
1,1-Dichloroethylene	6	<1	<0.5	<0.5	<0.5	<0.6	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	<0.5	<0.5	2.1	<0.5	<1	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	<1	<0.5	<0.5	<0.6	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	<0.5	<0.5	1.1	<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 ⁽³⁾	1750	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
o-Xylene ⁽³⁾	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	4Q05 Result ⁽¹⁾	1Q06 Result ⁽¹⁾	2Q06 Result ⁽¹⁾	3Q06 Result ⁽¹⁾	4-Quarter Running Average	Units	Method
Non-Volatile Synthetic Organic Chemicals (SOCs)								
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	<1	<1	5.1	<2.0	µg/L	EPA 515.4
Dibromochloropropane (DBCP)	0.2	0.029	<0.01	<0.01	<0.01	<0.015	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	<0.6	<0.6	1.1	<0.73	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	<20	<5	<5	<8.75	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	<0.085	<0.05	<0.05	<0.05	<0.24	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
Disinfection By-products								
Total Trihalomethanes ⁽⁴⁾	80	26	105	134	*		µg/L	EPA 524.2
Total Haloacetic Acids (HAA5) ⁽⁴⁾	60	<1	135	156	*		µg/L	ML/S6251B
Bromate	10	<5	<5	<5	<5	<5	µg/L	EPA 300.1
Chlorite by IC	1000	<0.02	<0.02	<0.01	<0.02	<0.025	mg/l	EPA 300.1
Disinfection By-products								
*Compliance Point Lysimeter Data		B-25	B-25	B-25	HE-25			
Total Trihalomethanes ⁽⁵⁾	80	18	9.3	1	37	16.3	µg/L	EPA 200.7
Total Haloacetic Acids ⁽⁵⁾	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	4Q05 Result ⁽¹⁾	1Q06 Result ⁽¹⁾	2Q06 Result ⁽¹⁾	3Q06 Result ⁽¹⁾	4-Quarter Running Average	Units	Method
Notification Levels								
Copper	1300	9	12.1	5	5.4	7.9	µg/L	EPA 200.7
Lead	15	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 200.8
Radionuclides								
Combined Radium-226 and Radium 228	5	<1.04	<0.486	<0.453	<0.754	<0.7	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	<317	<379	<202	<263	<290	pCi/l	EPA 906
Strontium 90	8	<0.397	<0.807	<0.871	1.07	<0.786	pCi/l	EPA 905
Gross Beta particle activity	50	9.4	<3	7.1	12	<7.9	pCi/l	EPA 900.0
Uranium	20	<0.7	<0.7	<0.7	<0.7	<0.7	pCi/l	EPA 200.8

⁽¹⁾ Recycled water sample is a blend of RP1 and RP4 Effluents

⁽²⁾ Aluminum was reanalyzed in November. 156 value is from 3Q05 and <70 is from 4Q05.

⁽³⁾ Limit is either for a single isomer or the sum of the isomers.

⁽⁴⁾ Results are from a blend for RP-1 and RP-4, which is not the compliance point for TTHM and HAA5.

⁽⁵⁾ 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.

Averages are calculated when a detection above the method reporting limit occurs in one or more samples. The reporting limit is used for other samples not detected above the method reporting limit. As an example: 1+(<0.5)= <0.8

Bold signifies an exceedance of a limit in the Order.



Table 2-7
Recycled Water⁽¹⁾ Monitoring Results: Remaining Priority Pollutants

Chemical	4Q05 Result	1Q06 Result	2Q06 Result	3Q06 Result	4-Quarter Running Average	Units	Method
Metals							
Trivalent Chromium	1	0.23	<0.1	<0.1	<0.36	ug/L	EPA 200.7
Volatile Organics							
Acrolein	<2	<2	4	<2	<2.5	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	5.0	3.7	4.1	4.1	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	150	78	87	87	101	µg/L	EPA 524.2
Bromodichloromethane	31	23	25	25	26	µg/L	EPA 524.2
Bromomethane	<1	<0.5	<0.5	<0.5	<0.63	µg/L	EPA 524.2
Chloromethane	<0.5	<0.5	<0.5	<0.5	<0.5	µg/L	EPA 524.2
Acid Extractibles							
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
Base/Neutral Extractibles							
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⁽¹⁾ Monitoring Results: Remaining Priority Pollutants

Chemical	4Q05 Result	1Q06 Result	2Q06 Result	3Q06 Result	4-Quarter Running 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
Pesticides							
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	<0.011	<0.011	<0.011	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
Unregulated Chemicals							
Boron	0.31	0.3	0.2	0.3	0.3	mg/L	EPA 200.7
Chromium-6	0.6	0.23	<0.1	0.28	<0.4	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)	<0.5	<3	<3	<3	<2	µg/L	EPA 524.2
N-Nitroso dimethylamine (NDMA) ⁽³⁾	7.3	4.8	5.8	15.5	4.5	ng/l	1625MOD
Perchlorate	<8	<4	<4	<4	<5.5	µg/L	EPA 314
tert-Amyl methyl ether (TAME)	<0.5	<3	<3	<3	<2	µg/L	EPA 524.2
tert-Butyl alcohol (TBA)	<2	<2	<2	<2	<2	µg/L	524.2MOD
Vanadium	3.7	4.3	5.3	3.8	4.3	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

⁽¹⁾Recycled water sample is a blend of RP1 and RP4 Effluents

⁽²⁾ Boron value is an average of July, August & September samples

⁽³⁾ 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.

Samples collected during the Third Quarter of 2005 for Acid Extractables and Base/Neutral Extractables were analyzed by an outside laboratory, which use a high detection limit within the EPA method 625.

Averages are calculated when a detection above the method reporting limit occurs in one or more samples. The reporting limit is used for other samples not detected above the method reporting limit. As an example: 1+(<0.5)=<0.8

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
Chemicals with State Notification Levels ⁽¹⁾						
N-butylbenzene	6/7/2006	<0.5	--	--	µg/L	524.2
sec-butylbenzene	6/7/2006	<0.5	--	--	µg/L	524.2
tert-butylbenzene	6/7/2006	<0.5	--	--	µg/L	524.2
Carbon disulfide	6/7/2006	--	--	--	µg/L	524.2
Chlorate	6/7/2006	1150	--	--	µg/L	300.0
2-chlorotoluene	6/7/2006	<0.5	--	--	µg/L	524.2
Diazinon	6/6/2006	<0.1	--	--	µg/L	525.2
1,4-Dioxane	6/7/2006	<2	--	--	µg/L	Purge and Trap-GC/MS
Formaldehyde	6/7/2006	75	--	--	µg/L	
Isopropylbenzene	6/7/2006	<0.5	--	--	µg/L	
N-propylbenzene	6/7/2006	<0.5	--	--	µg/L	
1,2,4-trimethylbenzene	6/7/2006	<0.5	--	--	µg/L	
1,3,5-trimethylbenzene	6/7/2006	<0.5	--	--	µg/L	524.2
Nitrosoamines ⁽¹⁾						
N-Nitrosodiethylamine (NDEA)	6/7/2006	<4	--	--	ng/L	525
N-Nitrosopyrrolidine	6/7/2006	5.3	--	--	ng/L	525
Hormones						
Ethinyl estradiol	5/3/2006	--	4.5	2.8	ng/L	HPLC/MS-SEDC
17-B estradiol	5/3/2006	--	<2	10	ng/L	HPLC/MS-SEDC
Estrone	5/3/2006	--	<1	1.3	ng/L	HPLC/MS-SEDC
"Industrial" Endocrine Disruptors						
Bisphenol A	5/3/2006	--	<10	<10	ng/L	HPLC/MS-SEDC
Nonylphenol and nonylphenol polyethoxylate	5/3/2006	--	810	5.1	ng/L	HPLC/MS-SEDC
Octylphenol and octylphenol polyethoxylate	5/3/2006	--	150	<1.5	ng/L	HPLC/MS-SEDC
PolybromiNA	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 28	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 71	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 47	5/3/2006	--	4	3.1	ng/L	8270C SIM
PBDE 66	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 100	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 99	5/3/2006	--	3	2.2	ng/L	8270C SIM
PBDE 85	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 154	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 153	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 138	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 128	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 183	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 190	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 203	5/3/2006	--	<0.97	<0.96	ng/L	8270C SIM
PBDE 206	5/3/2006	--	<97	<96	ng/L	8270C SIM
PBDE 209	5/3/2006	--	<97	<96	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 Blend	RP-1 Effluent	RP-4 Effluent	Units	Method
Pharmaceuticals and Other Substances						
Acetaminophen	38840	--	1400	300	ng/L	HPLC/MS-SEDC
Amoxicillin ⁽²⁾						
Azithromycin ⁽²⁾						
Caffeine	5/3/2006	--	67	<5	ng/L	HPLC/MS-SEDC
Carbamazepine	5/3/2006	--	480	<0.5	ng/L	HPLC/MS-SEDC
Ciprofloxacin ⁽²⁾						
Ethylenediamine tetra-acetic acid (EDTA)		--	NA	NA		
Gemfibrozil	5/3/2006	--	18	<0.5	ng/L	HPLC/MS-SEDC
Ibuprofen	38840	--	<10	170	ng/L	HPLC/MS-SEDC
Iodinated contrast media	5/3/2006	--	460	110	ng/L	HPLC/MS-SEDC
Lipitor ⁽²⁾						
Methadone	38840	--	<0.5	<0.5	ng/L	HPLC/MS-SEDC
Morphine ⁽²⁾						
Salicylic acid	38840	--	27	35	ng/L	HPLC/MS-SEDC
Triclosan	5/3/2006	--	14	54.0	ng/L	HPLC/MS-SEDC

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

(2) Method development is being refined to enhance recovery

NA = Not Analyzed at this time, method development in process.

Bold signifies an exceedance of a limit in the Order.



Table 2-9
Recycled Water⁽¹⁾ Monitoring Results: Miscellaneous Compounds

Chemical	Order Limit ⁽³⁾	4Q05 Results	1Q06 Results	2Q06 Results	3Q06 Results	4-Quarter Running Average	Units	Method
Aluminum ⁽²⁾	200	<70	<25	39	<25	<40	µg/L	EPA 200.7
Corrosivity Index	Non-corrosive	0	-0.4	-0.4	0	-0.3	SI	SM 2330B
Surfactants (MBAS)	0.5	0.13	0.12	0.16	0.1	0.13	mg/L	S 5540C/E425.1
Fe	300	224	123	118	84	108	µg/L	EPA 200.7
Mn	50	4	5	6	3	5	µg/L	EPA 200.7
Odor	3 Units	4	4	8	3	4.75	TON	ML/S2150B
Ag	100	<2	<0.25	<0.25	<0.25	<0.69	µg/L	EPA 200.7
Thiobencarb	1	<0.2	<0.2	<0.2	<0.2	<0.2	µg/L	EPA 525.2
Zn	5000	60	72	29	43	51	µg/L	EPA 200.7

⁽¹⁾ Recycled water sample is a blend of RP1 and RP4 Effluents

⁽²⁾ Aluminum was reanalyzed in November. 156 value is from 3Q05 and <70 is from 4Q05.

⁽³⁾ Refers to Permit Table 3, Compliance Determination B.3

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

detected above the method reporting limit. As an example: 1+(<0.5)=<0.8

Bold signifies an exceedance of a limit in the Order.



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

Constituents	Units	July-06	Aug-06	Sept-06
Silica	mg/L	11.2	11.9	12.4
Calcium	mg/L	13	15	15
Magnesium	mg/L	7	9	9
Sodium	mg/L	26	32	33
Potassium	mg/L	1.9	2.1	2.2
Carbonate	mg/L	0	0	0
Bicarbonate	mg/L	62	72	78
Sulfate	mg/L	20	24	23
Chloride	mg/L	32	41	42
Nitrate	mg/L	1.5	1.5	1.6
Fluoride	mg/L	0.08	0.08	0.08
Boron	mg/L	0.10	--	--
Total Dissolved Solids	mg/L	144	173	177
Total Hardness (as CaCO ₃)	mg/L	64	74	82
Total Alkalinity (as CaCO ₃)	mg/L	51	59	64
Free Carbon Dioxide	mg/L	2.1	1.1	--
pH		7.70	8.02	NR
Electrical Conductivity	µmho/cm	260	313	322
Turbidity	NTU	3.8	1.8	1.9
Temperature	C	25	24	25
Bromide	mg/L	0.10	0.13	0.14
Total Organic Carbon	mg/L	3.30	3.12	2.86

*Silverwood Lake at Devil Canyon

-- Not Provided

NA - Not analyzed

Source: Metropolitan Water District of Southern California



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

Station ID	Depth	Sample Date	Result	Units
BNA-0	0 ft	7/4/2006	7.14	mg/L
BNA-5	5 ft	7/4/2006	3.54	mg/L
BNA-10	10 ft	7/4/2006	2.45	mg/L
BNA-15	15 ft	7/4/2006	1.27	mg/L
BNA-25	25 ft	7/4/2006	0.85	mg/L
BNA-0	0 ft	7/11/2006	7.43	mg/L
BNA-5	5 ft	7/11/2006	3.90	mg/L
BNA-10	10 ft	7/11/2006	2.89	mg/L
BNA-15	15 ft	7/11/2006	1.46	mg/L
BNA-25	25 ft	7/11/2006	0.82	mg/L
BNA-0	0 ft	7/18/2006	7.00	mg/L
BNA-5	5 ft	7/18/2006	3.69	mg/L
BNA-10	10 ft	7/18/2006	3.53	mg/L
BNA-15	15 ft	7/18/2006	1.77	mg/L
BNA-25	25 ft	7/18/2006	1.18	mg/L
BNA-0	0 ft	7/25/2006	7.53	mg/L
BNA-5	5 ft	7/25/2006	3.99	mg/L
BNA-10	10 ft	7/25/2006	3.87	mg/L
BNA-15	15 ft	7/25/2006	1.88	mg/L
BNA-25	25 ft	7/25/2006	0.87	mg/L
BNA-0	0 ft	8/29/2006	5.67	mg/L
BNA-5	5 ft	8/29/2006	2.41	mg/L
BNA-10	10 ft	8/29/2006	4.32	mg/L
BNA-15	15 ft	8/29/2006	1.56	mg/L
BNA-25	25 ft	8/29/2006	1.68	mg/L
BNA-0	0 ft	9/6/2006	5.58	mg/L
BNA-5	5 ft	9/6/2006	2.67	mg/L
BNA-10	10 ft	9/6/2006	2.89	mg/L
BNA-15	15 ft	9/6/2006	1.88	mg/L
BNA-25	25 ft	9/6/2006	2.09	mg/L
BNA-0	0 ft	9/12/2006	5.67	mg/L
BNA-5	5 ft	9/12/2006	2.58	mg/L
BNA-10	10 ft	9/12/2006	3.62	mg/L
BNA-15	15 ft	9/12/2006	1.90	mg/L
BNA-25	25 ft	9/12/2006	1.73	mg/L
BNA-0	0 ft	9/19/2006	6.66	mg/L
BNA-5	5 ft	9/19/2006	2.58	mg/L
BNA-10	10 ft	9/19/2006	2.38	mg/L
BNA-15	15 ft	9/19/2006	1.92	mg/L
BNA-25	25 ft	9/19/2006	1.98	mg/L
BNA-0	0 ft	9/26/2006	5.96	mg/L
BNA-5	5 ft	9/26/2006	2.03	mg/L
BNA-10	10 ft	9/26/2006	2.09	mg/L
BNA-15	15 ft	9/26/2006	1.96	mg/L
BNA-25	25 ft	9/26/2006	1.57	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 Banana Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
BNA-0	0 ft	7/4/2006	<0.1	<0.01	2.6	2.6	5.2
BNA-5	5 ft	7/4/2006	<0.1	<0.01	<0.1	<0.5	<0.6
BNA-10	10 ft	7/4/2006	<0.1	<0.01	<0.1	<0.5	<0.6
BNA-15	15 ft	7/4/2006	<0.1	<0.01	0.2	0.5	0.7
BNA-25	25 ft	7/4/2006	<0.1	<0.01	0.4	1.3	1.7
BNA-0	0 ft	7/7/2006	<0.1	<0.01	3.8	1.3	5.1
BNA-5	5 ft	7/7/2006	<0.1	<0.01	0.3	1.2	1.5
BNA-10	10 ft	7/7/2006	<0.1	<0.01	<0.1	1.2	1.2
BNA-15	15 ft	7/7/2006	<0.1	<0.01	0.1	1.1	1.2
BNA-25	25 ft	7/7/2006	<0.1	<0.01	0.4	<0.5	0.4
BNA-0	0 ft	7/11/2006	<0.1	<0.01	1.7	2.3	4
BNA-5	5 ft	7/11/2006	<0.1	<0.01	<0.1	0.6	0.6
BNA-10	10 ft	7/11/2006	<0.1	<0.01	<0.1	0.7	0.7
BNA-15	15 ft	7/11/2006	<0.1	<0.01	<0.1	<0.5	<0.6
BNA-25	25 ft	7/11/2006	<0.1	<0.01	0.3	<0.5	0.3
BNA-0	0 ft	7/14/2006	0.3	0.09	1.6	3.2	4.89
BNA-5	5 ft	7/14/2006	<0.1	0.04	<0.1	1.2	1.24
BNA-10	10 ft	7/14/2006	<0.1	0.03	<0.1	0.8	0.83
BNA-15	15 ft	7/14/2006	<0.1	0.05	<0.1	2.3	2.35
BNA-25	25 ft	7/14/2006	<0.1	<0.01	0.2	1.9	2.1
BNA-0	0 ft	7/18/2006	0.2	<0.01	1.9	1.4	3.3
BNA-5	5 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
BNA-10	10 ft	7/18/2006	<0.1	<0.01	<0.1	0.6	0.6
BNA-15	15 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
BNA-25	25 ft	7/18/2006	<0.1	<0.01	0.2	<0.5	0.2
BNA-0	0 ft	7/25/2006	<0.1	<0.01	0.9	1.7	2.6
BNA-5	5 ft	7/25/2006	<0.1	<0.01	<0.1	1.1	1.1
BNA-10	10 ft	7/25/2006	<0.1	<0.01	<0.1	0.7	0.7
BNA-15	15 ft	7/25/2006	<0.1	<0.01	<0.1	0.9	0.9
BNA-25	25 ft	7/25/2006	<0.1	<0.01	0.2	0.5	0.7
BNA-0	0 ft	8/29/2006	<0.1	<0.01	6.6	1.3	7.9
BNA-5	5 ft	8/29/2006	<0.1	<0.01	6.6	1.0	7.6
BNA-10	10 ft	8/29/2006	<0.1	<0.01	1.4	<0.5	1.4
BNA-15	15 ft	8/29/2006	<0.1	<0.01	3.9	0.7	4.6
BNA-25	25 ft	8/29/2006	<0.1	<0.01	2.9	0.5	3.4
BNA-0	0 ft	9/6/2006	<0.1	<0.01	3.4	1.6	5.0
BNA-5	5 ft	9/6/2006	<0.1	<0.01	4.8	1.0	5.8
BNA-10	10 ft	9/6/2006	<0.1	<0.01	4.2	0.9	5.1
BNA-15	15 ft	9/6/2006	<0.1	<0.01	5.8	0.5	6.3
BNA-25	25 ft	9/6/2006	<0.1	<0.01	4.4	0.8	5.2
BNA-0	0 ft	9/12/2006	<0.1	<0.01	4.9	1.4	6.3
BNA-5	5 ft	9/12/2006	<0.1	<0.01	2.1	<0.5	2.1
BNA-10	10 ft	9/12/2006	<0.1	<0.01	7.7	0.8	8.5
BNA-15	15 ft	9/12/2006	<0.1	<0.01	3.4	<0.5	3.4
BNA-25	25 ft	9/12/2006	<0.1	<0.01	2.3	0.8	3.1
BNA-0	0 ft	9/19/2006	<0.1	<0.01	2.8	1.5	4.3
BNA-5	5 ft	9/19/2006	<0.1	IV	IV	<0.5	IDC
BNA-10	10 ft	9/19/2006	<0.1	<0.01	2.4	<0.5	2.4
BNA-15	15 ft	9/19/2006	<0.1	<0.01	1.8	<0.5	1.8
BNA-25	25 ft	9/19/2006	<0.1	<0.01	1.8	0.8	2.6
BNA-0	0 ft	9/26/2006	<0.1	<0.01	5.3	1.0	6.3
BNA-5	5 ft	9/26/2006	0.1	IV	IV	<0.5	IDC
BNA-10	10 ft	9/26/2006	<0.1	<0.01	1.0	<0.5	1.0
BNA-15	15 ft	9/26/2006	<0.1	<0.01	3.2	<0.5	3.2
BNA-25	25 ft	9/26/2006	<0.1	<0.01	2.5	<0.5	2.5

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

IDC: Insufficient data to calculate

IV: Insufficient volume for analysis



Table 2-13
Basin and Lysimeter Water Monitoring Results for Hickory East Basin: TOC

Station ID	Depth	Sample Date	Result	Units
HKE-0	0 ft	7/18/2006	6.16	mg/L
HKE-25	25 ft	7/18/2006	1.92	mg/L
HKE-0	0 ft	7/25/2006	6.66	mg/L
HKE-25	25 ft	7/25/2006	2.46	mg/L
HKE-0	0 ft	8/8/2006	6.22	mg/L
HKE-5	5 ft	8/8/2006	2.60	mg/L
HKE-10	10 ft	8/8/2006	2.02	mg/L
HKE-15	15 ft	8/8/2006	1.67	mg/L
HKE-25	25 ft	8/8/2006	1.43	mg/L
HKE-0	0 ft	8/15/2006	7.97	mg/L
HKE-25	25 ft	8/15/2006	1.75	mg/L
HKE-0	0 ft	8/22/2006	6.47	mg/L
HKE-25	25 ft	8/22/2006	2.24	mg/L
HKE-0	0 ft	8/29/2006	9.03	mg/L
HKE-25	25 ft	8/29/2006	1.79	mg/L

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon



Table 2-14
Basin and Lysimeter Water Monitoring Results for Hickory East Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
HKE-0	0 ft	7/18/2006	<0.1	<0.01	2.5	1.2	3.7
HKE-25	25 ft	7/18/2006	<0.1	IV	IV	<0.5	IDC
HKE-0	0 ft	7/25/2006	0.1	<0.01	2.1	2.9	5
HKE-25	25 ft	7/25/2006	<0.1	<0.01	1.8	0.5	2.3
HKE-0	0 ft	8/1/2006	<0.1	<0.01	1.1	1.5	2.6
HKE-5	5 ft	8/1/2006	<0.1	<0.01	0.7	1.0	1.7
HKE-10	10 ft	8/1/2006	<0.1	<0.01	1.3	1.0	2.3
HKE-15	15 ft	8/1/2006	<0.1	<0.01	3.1	0.8	3.9
HKE-25	25 ft	8/1/2006	<0.1	<0.01	2.3	0.6	2.9
HKE-0	0 ft	8/8/2006	<0.1	<0.01	2.9	0.7	3.6
HKE-5	5 ft	8/8/2006	<0.1	<0.01	0.7	<0.5	0.7
HKE-10	10 ft	8/8/2006	<0.1	<0.01	2.7	<0.5	2.7
HKE-15	15 ft	8/8/2006	<0.1	<0.01	2.6	0.5	3.1
HKE-25	25 ft	8/8/2006	<0.1	<0.01	1.4	<0.5	1.4
HKE-0	0 ft	8/15/2006	<0.1	<0.01	2.1	3.1	5.2
HKE-25	25 ft	8/15/2006	<0.1	<0.01	1.7	<0.5	1.7
HKE-0	0 ft	8/22/2006	<0.1	<0.01	3.2	1.7	4.9
HKE-25	25 ft	8/22/2006	<0.1	<0.01	1.0	<0.5	1.0
HKE-0	0 ft	8/29/2006	<0.1	<0.01	<0.1	3.1	3.1
HKE-25	25 ft	8/29/2006	<0.1	<0.01	1.7	1.2	2.9

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

IDC: Insufficient data to calculate

IV: Insufficient volume for analysis



Table 2-15
Basin and Lysimeter Water Monitoring Results for Turner 1 Basin: TOC

Station ID	Depth	Sample Date	Result	Units
TRN1-0	0 ft	7/4/2006	IV	mg/L
TRN1-5	5 ft	7/4/2006	5.38	mg/L
TRN1-10	10 ft	7/4/2006	2.96	mg/L
TRN1-15	15 ft	7/4/2006	2.21	mg/L
TRN1-25	25 ft	7/4/2006	2.49	mg/L
TRN1-35	35 ft	7/4/2006	1.27	mg/L
TRN1-0	0 ft	7/11/2006	IV	mg/L
TRN1-5	5 ft	7/11/2006	6.04	mg/L
TRN1-10	10 ft	7/11/2006	3.20	mg/L
TRN1-15	15 ft	7/11/2006	2.05	mg/L
TRN1-25	25 ft	7/11/2006	1.85	mg/L
TRN1-35	35 ft	7/11/2006	1.05	mg/L
TRN1-0	0 ft	7/18/2006	IV	mg/L
TRN1-5	5 ft	7/18/2006	IV	mg/L
TRN1-10	10 ft	7/18/2006	IV	mg/L
TRN1-15	15 ft	7/18/2006	1.93	mg/L
TRN1-25	25 ft	7/18/2006	1.73	mg/L
TRN1-35	35 ft	7/18/2006	1.04	mg/L
TRN1-0	0 ft	7/25/2006	IV	mg/L
TRN1-5	5 ft	7/25/2006	IV	mg/L
TRN1-10	10 ft	7/25/2006	IV	mg/L
TRN1-15	15 ft	7/25/2006	IV	mg/L
TRN1-25	25 ft	7/25/2006	1.61	mg/L
TRN1-35	35 ft	7/25/2006	1.10	mg/L
TRN1-0	0 ft	8/1/2006	6.97	mg/L
TRN1-5	5 ft	8/1/2006	7.40	mg/L
TRN1-10	10 ft	8/1/2006	3.92	mg/L
TRN1-15	15 ft	8/1/2006	2.02	mg/L
TRN1-25	25 ft	8/1/2006	1.74	mg/L
TRN1-35	35 ft	8/1/2006	1.11	mg/L
TRN1-0	0 ft	8/8/2006	6.00	mg/L
TRN1-5	5 ft	8/8/2006	4.95	mg/L
TRN1-10	10 ft	8/8/2006	3.67	mg/L
TRN1-15	15 ft	8/8/2006	2.37	mg/L
TRN1-25	25 ft	8/8/2006	1.59	mg/L
TRN1-35	35 ft	8/8/2006	1.07	mg/L
TRN1-0	0 ft	8/15/2006	6.75	mg/L
TRN1-5	5 ft	8/15/2006	4.58	mg/L
TRN1-10	10 ft	8/15/2006	3.16	mg/L
TRN1-15	15 ft	8/15/2006	2.05	mg/L
TRN1-25	25 ft	8/15/2006	2.30	mg/L
TRN1-35	35 ft	8/15/2006	1.39	mg/L
TRN1-0	0 ft	8/22/2006	6.93	mg/L
TRN1-5	5 ft	8/22/2006	4.05	mg/L
TRN1-10	10 ft	8/22/2006	3.37	mg/L
TRN1-15	15 ft	8/22/2006	2.06	mg/L
TRN1-25	25 ft	8/22/2006	2.45	mg/L
TRN1-35	35 ft	8/22/2006	1.59	mg/L



Table 2-15
Basin and Lysimeter Water Monitoring Results for Turner 1 Basin: TOC

Station ID	Depth	Sample Date	Result	Units
TRN1-0	0 ft	8/29/2006	6.69	mg/L
TRN1-5	5 ft	8/29/2006	4.22	mg/L
TRN1-10	10 ft	8/29/2006	3.25	mg/L
TRN1-15	15 ft	8/29/2006	2.04	mg/L
TRN1-25	25 ft	8/29/2006	2.13	mg/L
TRN1-35	35 ft	8/29/2006	1.70	mg/L
TRN1-0	0 ft	9/6/2006	6.05	mg/L
TRN1-5	5 ft	9/6/2006	3.90	mg/L
TRN1-10	10 ft	9/6/2006	3.21	mg/L
TRN1-15	15 ft	9/6/2006	2.08	mg/L
TRN1-25	25 ft	9/6/2006	2.32	mg/L
TRN1-35	35 ft	9/6/2006	1.75	mg/L
TRN1-0	0 ft	9/12/2006	6.32	mg/L
TRN1-5	5 ft	9/12/2006	3.78	mg/L
TRN1-10	10 ft	9/12/2006	3.03	mg/L
TRN1-15	15 ft	9/12/2006	1.79	mg/L
TRN1-25	25 ft	9/12/2006	1.73	mg/L
TRN1-35	35 ft	9/12/2006	1.66	mg/L
TRN1-0	0 ft	9/19/2006	6.13	mg/L
TRN1-5	5 ft	9/19/2006	3.98	mg/L
TRN1-10	10 ft	9/19/2006	3.20	mg/L
TRN1-15	15 ft	9/19/2006	1.97	mg/L
TRN1-25	25 ft	9/19/2006	2.40	mg/L
TRN1-35	35 ft	9/19/2006	1.71	mg/L
TRN1-0	0 ft	9/26/2006	7.50	mg/L
TRN1-5	5 ft	9/26/2006	3.63	mg/L
TRN1-10	10 ft	9/26/2006	3.07	mg/L
TRN1-15	15 ft	9/26/2006	1.91	mg/L
TRN1-25	25 ft	9/26/2006	2.01	mg/L
TRN1-35	35 ft	9/26/2006	1.58	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 2-16
Basin and Lysimeter Water Monitoring Results for Turner 1 Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
TRN1-0	0 ft	7/4/2006	IV	IV	IV	IV	IDC
TRN1-5	5 ft	7/4/2006	<0.1	IV	IV	1.0	IDC
TRN1-10	10 ft	7/4/2006	<0.1	<0.01	<0.1	0.6	0.6
TRN1-15	15 ft	7/4/2006	<0.1	<0.01	0.3	0.9	1.2
TRN1-25	25 ft	7/4/2006	<0.1	IV	IV	0.8	IDC
TRN1-35	35 ft	7/4/2006	IV	IV	IV	IV	IDC
TRN1-0	0 ft	7/11/2006	IV	IV	IV	IV	IDC
TRN1-5	5 ft	7/11/2006	IV	IV	IV	IV	IDC
TRN1-10	10 ft	7/11/2006	0.2	<0.01	<0.1	2.3	2.3
TRN1-15	15 ft	7/11/2006	<0.1	IV	IV	0.9	IDC
TRN1-25	25 ft	7/11/2006	IV	IV	IV	IV	IDC
TRN1-35	35 ft	7/11/2006	IV	IV	IV	IV	IDC
TRN1-0	0 ft	7/18/2006	IV	IV	IV	IV	IDC
TRN1-5	5 ft	7/18/2006	IV	IV	IV	IV	IDC
TRN1-10	10 ft	7/18/2006	IV	IV	IV	IV	IDC
TRN1-15	15 ft	7/18/2006	<0.1	IV	IV	<0.5	IDC
TRN1-25	25 ft	7/18/2006	IV	IV	IV	IV	IDC
TRN1-35	35 ft	7/18/2006	IV	IV	IV	IV	IDC
TRN1-0	0 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-5	5 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-10	10 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-15	15 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-25	25 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-35	35 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN1-0	0 ft	8/1/2006	<0.1	<0.01	1.6	1.8	3.4
TRN1-5	5 ft	8/1/2006	0.2	0.13	10.7	1.9	12.7
TRN1-10	10 ft	8/1/2006	<0.1	0.04	9	1.5	10.5
TRN1-15	15 ft	8/1/2006	<0.1	<0.01	0.5	0.6	1.1
TRN1-25	25 ft	8/1/2006	<0.1	<0.01	0.7	0.8	1.5
TRN1-35	35 ft	8/1/2006	IV	IV	IV	IV	IDC
TRN1-0	0 ft	8/8/2006	<0.1	<0.01	2.6	1.9	4.5
TRN1-5	5 ft	8/8/2006	0.1	<0.01	3.9	1.2	5.1
TRN1-10	10 ft	8/8/2006	<0.1	0.12	3.7	<0.5	3.8
TRN1-15	15 ft	8/8/2006	<0.1	<0.01	3.0	<0.5	3.0
TRN1-25	25 ft	8/8/2006	<0.1	IV	IV	<0.5	IDC
TRN1-35	35 ft	8/8/2006	<0.1	<0.01	0.2	<0.5	0.2
TRN1-0	0 ft	8/15/2006	<0.1	<0.01	1.5	2.1	3.6
TRN1-5	5 ft	8/15/2006	<0.1	<0.01	0.9	0.5	1.4
TRN1-10	10 ft	8/15/2006	<0.1	0.07	0.8	<0.5	0.9
TRN1-15	15 ft	8/15/2006	<0.1	0.02	1.7	<0.5	1.7
TRN1-25	25 ft	8/15/2006	<0.1	0.02	2.1	1.1	3.2
TRN1-35	35 ft	8/15/2006	<0.1	<0.01	1.1	1.3	2.4
TRN1-0	0 ft	8/22/2006	<0.1	<0.01	1.6	1.2	2.8
TRN1-5	5 ft	8/22/2006	<0.1	<0.01	0.4	<0.5	0.4
TRN1-10	10 ft	8/22/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-15	15 ft	8/22/2006	<0.1	<0.01	0.7	<0.5	0.7
TRN1-25	25 ft	8/22/2006	<0.1	<0.01	1.6	<0.5	1.6
TRN1-35	35 ft	8/22/2006	<0.1	<0.01	0.7	<0.5	0.7
TRN1-0	0 ft	8/29/2006	<0.1	<0.01	1.7	2.2	3.9
TRN1-5	5 ft	8/29/2006	0.2	<0.01	0.5	1.1	1.6
TRN1-10	10 ft	8/29/2006	<0.1	<0.01	<0.1	0.5	0.5
TRN1-15	15 ft	8/29/2006	<0.1	<0.01	0.4	0.6	1.0
TRN1-25	25 ft	8/29/2006	<0.1	<0.01	1.0	0.8	1.8
TRN1-35	35 ft	8/29/2006	<0.1	<0.01	0.4	0.9	1.3



Table 2-16
Basin and Lysimeter Water Monitoring Results for Turner 1 Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
TRN1-0	0 ft	9/6/2006	0.5	<0.01	2.2	1.8	4.0
TRN1-5	5 ft	9/6/2006	<0.1	<0.01	0.3	<0.5	0.3
TRN1-10	10 ft	9/6/2006	<0.1	<0.01	<0.1	0.9	0.9
TRN1-15	15 ft	9/6/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-25	25 ft	9/6/2006	<0.1	<0.01	0.6	0.6	1.2
TRN1-35	35 ft	9/6/2006	<0.1	<0.01	0.2	<0.5	0.2
TRN1-0	0 ft	9/12/2006	<0.1	<0.01	1.7	2.2	3.9
TRN1-5	5 ft	9/12/2006	<0.1	<0.01	0.3	0.8	1.1
TRN1-10	10 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-15	15 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-25	25 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-35	35 ft	9/12/2006	<0.1	IV	IV	<0.5	IDC
TRN1-0	0 ft	9/19/2006	0.4	<0.01	2.2	2.6	4.8
TRN1-5	5 ft	9/19/2006	<0.1	<0.01	0.3	0.8	1.1
TRN1-10	10 ft	9/19/2006	<0.1	<0.01	<0.1	0.8	0.8
TRN1-15	15 ft	9/19/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-25	25 ft	9/19/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-35	35 ft	9/19/2006	<0.1	IV	IV	<0.5	IDC
TRN1-0	0 ft	9/26/2006	<0.1	<0.01	0.4	2.2	2.6
TRN1-5	5 ft	9/26/2006	0.2	<0.01	0.2	0.8	1.0
TRN1-10	10 ft	9/26/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-15	15 ft	9/26/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN1-25	25 ft	9/26/2006	<0.1	<0.01	<0.1	0.7	<0.6
TRN1-35	35 ft	9/26/2006	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

DNR: Laboratory did not report data prior publishing this report

IDC: Insufficient data to calculate

IV: Insufficient Volume for analysis



Table 2-17
Basin and Lysimeter Water Monitoring Results for Turner 4 Basin: TOC

Station ID	Depth	Sample Date	Result	Units
TRN4-0	0 ft	7/4/2006	11.30	mg/L
TRN4-5	5 ft	7/4/2006	4.36	mg/L
TRN4-10	10 ft	7/4/2006	2.01	mg/L
TRN4-15	15 ft	7/4/2006	1.95	mg/L
TRN4-25	25 ft	7/4/2006	2.11	mg/L
TRN4-35	35 ft	7/4/2006	1.68	mg/L
TRN4-0	0 ft	7/11/2006	6.74	mg/L
TRN4-5	5 ft	7/11/2006	4.59	mg/L
TRN4-10	10 ft	7/11/2006	2.04	mg/L
TRN4-15	15 ft	7/11/2006	2.12	mg/L
TRN4-25	25 ft	7/11/2006	1.89	mg/L
TRN4-35	35 ft	7/11/2006	1.71	mg/L
TRN4-0	0 ft	7/18/2006	6.59	mg/L
TRN4-5	5 ft	7/18/2006	4.39	mg/L
TRN4-10	10 ft	7/18/2006	2.28	mg/L
TRN4-15	15 ft	7/18/2006	2.26	mg/L
TRN4-25	25 ft	7/18/2006	2.24	mg/L
TRN4-35	35 ft	7/18/2006	1.71	mg/L
TRN4-0	0 ft	7/25/2006	7.46	mg/L
TRN4-5	5 ft	7/25/2006	4.40	mg/L
TRN4-10	10 ft	7/25/2006	2.52	mg/L
TRN4-15	15 ft	7/25/2006	2.74	mg/L
TRN4-25	25 ft	7/25/2006	2.09	mg/L
TRN4-35	35 ft	7/25/2006	1.89	mg/L
TRN4-0	0 ft	8/1/2006	6.09	mg/L
TRN4-5	5 ft	8/1/2006	4.29	mg/L
TRN4-10	10 ft	8/1/2006	2.59	mg/L
TRN4-15	15 ft	8/1/2006	2.46	mg/L
TRN4-25	25 ft	8/1/2006	1.81	mg/L
TRN4-35	35 ft	8/1/2006	1.84	mg/L
TRN4-0	0 ft	8/8/2006	6.48	mg/L
TRN4-5	5 ft	8/8/2006	4.22	mg/L
TRN4-10	10 ft	8/8/2006	2.49	mg/L
TRN4-15	15 ft	8/8/2006	2.47	mg/L
TRN4-25	25 ft	8/8/2006	1.75	mg/L
TRN4-35	35 ft	8/8/2006	1.76	mg/L
TRN4-0	0 ft	8/15/2006	6.26	mg/L
TRN4-5	5 ft	8/15/2006	3.77	mg/L
TRN4-10	10 ft	8/15/2006	2.43	mg/L
TRN4-15	15 ft	8/15/2006	2.37	mg/L
TRN4-25	25 ft	8/15/2006	1.72	mg/L
TRN4-35	35 ft	8/15/2006	1.66	mg/L



Table 2-17
Basin and Lysimeter Water Monitoring Results for Turner 4 Basin: TOC

Station ID	Depth	Sample Date	Result	Units
TRN4-0	0 ft	8/22/2006	14.70	mg/L
TRN4-5	5 ft	8/22/2006	3.93	mg/L
TRN4-10	10 ft	8/22/2006	2.45	mg/L
TRN4-15	15 ft	8/22/2006	2.50	mg/L
TRN4-25	25 ft	8/22/2006	1.98	mg/L
TRN4-35	35 ft	8/22/2006	1.71	mg/L
TRN4-0	0 ft	8/29/2006	6.34	mg/L
TRN4-5	5 ft	8/29/2006	3.73	mg/L
TRN4-10	10 ft	8/29/2006	2.39	mg/L
TRN4-15	15 ft	8/29/2006	2.40	mg/L
TRN4-25	25 ft	8/29/2006	1.67	mg/L
TRN4-35	35 ft	8/29/2006	1.63	mg/L
TRN4-0	0 ft	9/6/2006	5.03	mg/L
TRN4-5	5 ft	9/6/2006	3.62	mg/L
TRN4-10	10 ft	9/6/2006	2.45	mg/L
TRN4-15	15 ft	9/6/2006	2.46	mg/L
TRN4-25	25 ft	9/6/2006	1.80	mg/L
TRN4-35	35 ft	9/6/2006	1.59	mg/L
TRN4-0	0 ft	9/12/2006	5.73	mg/L
TRN4-5	5 ft	9/12/2006	3.65	mg/L
TRN4-10	10 ft	9/12/2006	2.48	mg/L
TRN4-15	15 ft	9/12/2006	2.74	mg/L
TRN4-25	25 ft	9/12/2006	1.77	mg/L
TRN4-35	35 ft	9/12/2006	1.72	mg/L
TRN4-0	0 ft	9/19/2006	5.25	mg/L
TRN4-5	5 ft	9/19/2006	3.65	mg/L
TRN4-10	10 ft	9/19/2006	2.47	mg/L
TRN4-15	15 ft	9/19/2006	2.60	mg/L
TRN4-25	25 ft	9/19/2006	1.80	mg/L
TRN4-35	35 ft	9/19/2006	1.70	mg/L
TRN4-0	0 ft	9/26/2006	5.27	mg/L
TRN4-5	5 ft	9/26/2006	3.52	mg/L
TRN4-10	10 ft	9/26/2006	2.43	mg/L
TRN4-15	15 ft	9/26/2006	2.55	mg/L
TRN4-25	25 ft	9/26/2006	1.67	mg/L
TRN4-35	35 ft	9/26/2006	1.66	mg/L

Notes:

ft: feet below the bottom of the basin

mg/L: milligrams per liter

TOC: Total Organic Carbon



Table 2-18
Basin and Lysimeter Water Monitoring Results for Turner 4 Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
TRN4-0	0 ft	7/4/2006	<0.1	IV	IV	2.9	IDC
TRN4-5	5 ft	7/4/2006	<0.1	IV	IV	1.2	IDC
TRN4-10	10 ft	7/4/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	7/4/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-25	25 ft	7/4/2006	IV	IV	IV	IV	IDC
TRN4-35	35 ft	7/4/2006	<0.1	IV	IV	<0.5	IDC
TRN4-0	0 ft	7/11/2006	<0.1	<0.01	2.2	2.3	4.5
TRN4-5	5 ft	7/11/2006	<0.1	<0.01	<0.1	1.6	1.6
TRN4-10	10 ft	7/11/2006	<0.1	<0.01	<0.1	0.6	0.6
TRN4-15	15 ft	7/11/2006	<0.1	<0.01	<0.1	0.7	0.7
TRN4-25	25 ft	7/11/2006	<0.1	IV	IV	0.6	IDC
TRN4-35	35 ft	7/11/2006	<0.1	IV	IV	1.2	IDC
TRN4-0	0 ft	7/18/2006	<0.1	<0.01	2.2	1.2	3.4
TRN4-5	5 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-10	10 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-25	25 ft	7/18/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-35	35 ft	7/18/2006	<0.1	<0.01	0.7	<0.5	0.7
TRN4-0	0 ft	7/25/2006	0.1	<0.01	1.3	2.8	4.1
TRN4-5	5 ft	7/25/2006	<0.1	<0.01	<0.1	1.0	1.0
TRN4-10	10 ft	7/25/2006	<0.1	<0.01	<0.1	0.8	0.8
TRN4-15	15 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN4-25	25 ft	7/25/2006	IV	IV	IV	IV	IDC
TRN4-35	35 ft	7/25/2006	<0.1	IV	IV	1.3	IDC
TRN4-0	0 ft	8/1/2006	<0.1	<0.01	1.3	1.6	2.9
TRN4-5	5 ft	8/1/2006	<0.1	<0.01	<0.1	1.5	1.5
TRN4-10	10 ft	8/1/2006	<0.1	<0.01	<0.1	0.9	0.9
TRN4-15	15 ft	8/1/2006	<0.1	IV	IV	0.8	IDC
TRN4-25	25 ft	8/1/2006	<0.1	IV	IV	0.8	IDC
TRN4-35	35 ft	8/1/2006	<0.1	IV	IV	0.7	IDC
TRN4-0	0 ft	8/8/2006	<0.1	<0.01	1.3	2.7	4
TRN4-5	5 ft	8/8/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-10	10 ft	8/8/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	8/8/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-25	25 ft	8/8/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-35	35 ft	8/8/2006	<0.1	<0.01	0.5	<0.5	0.5
TRN4-0	0 ft	8/15/2006	0.2	<0.01	1.1	2.4	3.5
TRN4-5	5 ft	8/15/2006	<0.1	<0.01	<0.1	1.5	1.5
TRN4-10	10 ft	8/15/2006	<0.1	<0.01	<0.1	1.3	1.3
TRN4-15	15 ft	8/15/2006	<0.1	<0.01	<0.1	0.6	0.6
TRN4-25	25 ft	8/15/2006	<0.1	IV	IV	1.2	IDC
TRN4-35	35 ft	8/15/2006	<0.1	<0.01	0.4	0.7	1.1
TRN4-0	0 ft	8/22/2006	<0.1	<0.01	1.0	IV	IDC
TRN4-5	5 ft	8/22/2006	0.1	<0.01	<0.1	<0.5	<0.6
TRN4-10	10 ft	8/22/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	8/22/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-25	25 ft	8/22/2006	IV	IV	IV	IV	IDC
TRN4-35	35 ft	8/22/2006	<0.1	<0.01	0.4	<0.5	0.4
TRN4-0	0 ft	8/29/2006	<0.1	<0.01	0.5	0.9	1.4
TRN4-5	5 ft	8/29/2006	<0.1	<0.01	<0.1	1.0	1.0
TRN4-10	10 ft	8/29/2006	<0.1	<0.01	<0.1	0.6	0.6
TRN4-15	15 ft	8/29/2006	<0.1	<0.01	<0.1	0.6	0.6
TRN4-25	25 ft	8/29/2006	<0.1	IV	IV	<0.5	IDC
TRN4-35	35 ft	8/29/2006	<0.1	<0.01	0.4	<0.5	0.4



Table 2-18
Basin and Lysimeter Water Monitoring Results for Turner 4 Basin:
Ammonia-Nitrogen, Nitrite-Nitrogen, Nitrate-Nitrogen, TKN, and TN (mg/L)

Station ID	Depth	Sample Date	NH3-N	NO2-N	NO3-N	TKN	TN
TRN4-0	0 ft	9/6/2006	<0.1	<0.01	0.8	5.9	6.7
TRN4-5	5 ft	9/6/2006	0.1	<0.01	<0.1	0.7	0.7
TRN4-10	10 ft	9/6/2006	<0.1	<0.01	<0.1	0.7	0.7
TRN4-15	15 ft	9/6/2006	IV	IV	IV	0.8	IDC
TRN4-25	25 ft	9/6/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-35	35 ft	9/6/2006	<0.1	<0.01	0.4	1.8	2.2
TRN4-0	0 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-5	5 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-10	10 ft	9/12/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	9/12/2006	IV	IV	IV	IV	IDC
TRN4-25	25 ft	9/12/2006	<0.1	IV	IV	<0.5	IDC
TRN4-35	35 ft	9/12/2006	<0.1	<0.01	0.4	1.5	1.9
TRN4-0	0 ft	9/19/2006	<0.1	<0.01	<0.1	1.5	1.5
TRN4-5	5 ft	9/19/2006	<0.1	<0.01	<0.1	0.7	0.7
TRN4-10	10 ft	9/19/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	9/19/2006	<0.1	IV	IV	<0.5	IDC
TRN4-25	25 ft	9/19/2006	<0.1	IV	IV	<0.5	IDC
TRN4-35	35 ft	9/19/2006	<0.1	<0.01	0.4	<0.5	0.4
TRN4-0	0 ft	9/26/2006	<0.1	<0.01	<0.1	1.4	1.4
TRN4-5	5 ft	9/26/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-10	10 ft	9/26/2006	<0.1	<0.01	<0.1	<0.5	<0.6
TRN4-15	15 ft	9/26/2006	IV	IV	IV	IV	IDC
TRN4-25	25 ft	9/26/2006	<0.1	IV	IV	<0.5	IDC
TRN4-35	35 ft	9/26/2006	<0.1	<0.01	0.4	<0.5	0.4

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

IDC: Insufficient data to calculate

IV: Insufficient volume for analysis



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-Buyl 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 SOLDS(MG/L)	TOTAL HARDNESS (AS CaCO3)(MG/L)	TOTAL ORGANIC CARBON(MG/L)	TOTAL NITROGEN (MG/L)	TURBIDITY(NTU)	ZINC(µg/L)	
					0.2		250*	15*	1000	NC*	2**	0.5*	0.3*	0.005	5*	10	1	3*	PH (Field)	0.1*		900*	250*	1*			500*						
Banana and Hickory Basins	Maximum Contaminant Level ▶																																
	600660	Infield Well	08-Aug-05	3Q2005	1.06	<0.1	10	<3	<1.0	-0.1	NC	<0.050	0.100	<0.002	<0.5	5.5	<0.01	1	7.35	<2	19	429	13	<0.2	0.1		284.4	174	<0.3	5.6	0.14	<2	
	600660	Infield Well	16-Dec-05	4Q2005	0.157	0.10	10	<3	5.0	0.2	NC	0.042	<0.002	<1.0	6.2	<0.01	1	7.70	<2	17	395	15	<0.2	<0.2		262	169	0.15	6.2	0.3	<2		
	600660	Infield Well	10-Feb-06	1Q2006	<0.07	<0.1	13	<3	1.0	0.4	NC	<0.050	<0.015	<0.002	<0.5	8.2	0.04	2	7.9	<2	18	435	20	<0.5	<0.2	<1.1	276	181	<0.1	8.2	0.4	3	
	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	0.4	<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	
	601002	BH-1/2	07-Jun-05	2Q2005	0.524	0.20	22		2.0	0.4	NA	<0.050	0.652	0.040	<0.5	12.5	0.02	3	7.90	<2	21	430	15	<0.5	<0.1	<1.1	292	164	0.75	12.5	8.37	14	
	601002	BH-1/2	19-Jul-05	3Q2005		0.10					5.17					14.0	0.03		7.61						0.2					14.2			
	601002	BH-1/2	03-Aug-05	3Q2005		0.10					5.15					14.0	<0.01		7.51						<0.1					14.0			
	601002	BH-1/2	17-Aug-05	3Q2005		<0.1					5.00					14.1	<0.01		7.72						<0.1					14.1			
	601002	BH-1/2	01-Sep-05	3Q2005		0.54					4.52					13.7	<0.01		7.37						<0.1					13.7			
	601002	BH-1/2	15-Sep-05	3Q2005		<0.1					4.59					13.0	<0.2		7.20						0.1				0.53	13.1			
	601002	BH-1/2	29-Sep-05	3Q2005		<0.1					4.31					13.2	<0.01					630			0.1				0.69	13.3			
	601002	BH-1/2	12-Oct-05	4Q2005		0.10					5.89					13.8	<0.01						614			0.3				0.3	14.1		
	601002	BH-1/2	27-Oct-05	4Q2005							5.62												600						<0.3	0.0			
	601002	BH-1/2	08-Nov-05	4Q2005		0.10	62	<3			6.07	<0.050				13.3	<0.01	1	7.70			22	560	19	<0.2		450		<0.6	13.3	1.65		
	601002	BH-1/2	23-Nov-05	4Q2005		0.10					5.61					13.4	<0.01						587			<0.2					13.4		
	601002	BH-1/2	07-Dec-05	4Q2005							6.90					13.7	<0.01								<0.2					13.7			
	601002	BH-1/2	27-Dec-05	4Q2005		0.10					6.43					12.7	<0.01		7.45						0.3					13.0			
	601002	BH-1/2	04-Jan-06	1Q2006		0.10					6.44					11.9	<0.01						1170			0.4					12.3		
	601002	BH-1/2	18-Jan-06	1Q2006		<0.1					6.14					8.7	<0.01								<0.2						8.7		
	601002	BH-1/2	02-Feb-06	1Q2006		0.10					NA					9.4	<0.01								<0.2						9.4		
	601002	BH-1/2	15-Feb-06	1Q2006	<0.07	<0.1	38	<3	<1.0	0.2	NA	<0.050	<0.015	<0.002	<0.5	12.2	<0.01	1	7.75	<2	20	475	26	<0.5	<0.2	<1.1	314	185	0.21	12.2	0.2	4	
	601002	BH-1/2	02-Mar-06	1Q2006		<0.1					5.40					9.6	<0.01		7.37						<0.2				<1	9.6			
	601002	BH-1/2	15-Mar-06	1Q2006		<0.1					NA					10.9	<0.01		7.52						<0.2					0.19	10.9		
	601002	BH-1/2	29-Mar-06	1Q2006		<0.1					4.43					7.9	<0.01		7.54						<0.2					0.41	7.9		
	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		NC			<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				21		0.3		248	150	0.23	6.5			
	601002	BH-1/2	24-May-06	2Q2006	<0.025	<0.1	13		1.2		NC			<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			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			<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			<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			3	
	601002	BH-1/2	07-Sep-06	3Q2006		<0.1	11				7.47					5.3	<0.01		6.36				17		24		DNR	254	161	0.1			
	601002	BH-1/2	21-Sep-06	3Q2006		<0.1	12				6.5					5.4	<0.01		6.69				25			DNR	256		0.13				
	3600371	SCE East Well	05-Aug-05	3Q2005	1.03	0.10	13	<3	<1.0		NC	<0.050	0.098	<0.002		6.4	<0.01	1	7.70	<2	19	368	15	0.2		241.3	150	<0.3	6.6	0.1	2		
	3600371	SCE East Well	09-Nov-05	4Q2005		0.10	5	<3	<1.0		NC	<0.050				5.1	<0.01	1	7.55			17	335	15			232		<0.3	5.1	0.92		
	3600371	SCE East Well	16-Dec-05	4Q2005							NC					<1.0									<0.2								
	3600371	SCE East Well	10-Feb-06	1Q2006	<0.07	<0.1	18	<3	<1.0	-0.1	NC	<0.050	<0.015	<0.002	<0.5	8.5	<0.01	2	7.6	<2	16	340	20	<0.5	<0.2	<1.1	238	144	0.1	8.5		4	
	3600371	SCE East Well	15-Jun-06	2Q2006	<0.025	<0.1	11	<3	4.5	0.0	2.42	<																					

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 ▶																																	
Turner Basin	600998	T-1/2	03-Jul-06	3Q2006	<0.025	<0.1	46		<0.5					<0.001		0.6	<0.01		7.5	<0.25			20	<0.5	1.2			162	0.73			<1	
	600998	T-1/2	14-Jul-06	3Q2006	<0.025	<0.1	49		<0.5		3.05			<0.001		0.6	0.03		7.65	<0.25			22		1.4			164	0.47			<1	
	600998	T-1/2	27-Jul-06	3Q2006	<0.025	<0.1	47		<0.5		6.58			<0.001		0.6	0.03		7.65	<0.25	20		21		0.7			163	0.5			<1	
	600998	T-1/2	10-Aug-06	3Q2006	<0.025	<0.1	47	3	<0.5	0.0	6.74	<0.050	<0.015	<0.001	<0.5	0.5	<0.01	1	7.55	<0.25	19	430	23	<0.2	<0.5	<1.1	274	157	0.42	0.5	0.19	2	
	600998	T-1/2	24-Aug-06	3Q2006		0.10	45				6.79				0.5	<0.01		7.89		20		22		0.6		298	163	0.48					
	600998	T-1/2	07-Sep-06	3Q2006	<0.025	<0.1	39		<0.5		7.73			<0.001		0.4	<0.01		7.29	<0.25	20		23		DNR	280		0.42				<1	
	600998	T-1/2	21-Sep-06	3Q2006		<0.1	37				7.34				0.5	<0.01		7.43				23		DNR	278		0.44						
	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			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			<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	
	600999	T-2/1	10-Aug-06	3Q2006	<0.025	<0.1	14	DNR	0.5	-0.1	6.8	DNR	<0.015	<0.001	<0.5	0.5	<0.01	DNR	7.7	<0.25	15	280	17	<0.2	<0.5	<1.1	182	111	0.55	0.5	0.2	<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					
	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		DNR	164		0.45				<1	
	600999	T-2/1	21-Sep-06	3Q2006		<0.1	13				8.75				0.5	<0.01		7.85				14		DNR	172		0.48						
	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	
	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			<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	
	601000	T-2/2	10-Aug-06	3Q2006	<0.025	<0.1	13	<3	<0.5	-0.2	7.43	DNR	<0.015	<0.001	<0.5	0.6	<0.01	DNR	7.61	<0.25	13	275	17	<0.2	1.3	<1.1	184	102	0.68	1.9	0.3	<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				
	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		DNR	160		0.42				2	
	601000	T-2/2	21-Sep-06	3Q2006		<0.1	14				7.94				0.7	<0.01		7.75				14		DNR	162		0.45						
	3600010	Ontario 25	10-Aug-06	3Q2006	<0.025	<0.1	8	<3	1.1		9.87	<0.050	<0.015	<0.001	<0.5	2.5	<0.01	1	7.9	<0.25	17	365	13	<0.2	0.6	<1.1	252	144	0.12	3.1	0.13	<1	
	600453	Ontario 29	25-Sep-06	3Q2006	DNR	<0.1	8	<3	DNR	DNR	6.88	<0.050	DNR	DNR	<0.5	2.6	<0.01	1	7.82	DNR	DNR	345	16	<0.2	DNR	<1.1	228	DNR	<0.1	DNR	DNR	DNR	
	600585	Ontario 38	25-Sep-06	3Q2006	DNR	<0.1	4	<3	DNR	DNR	7.3	<0.050	DNR	DNR	<0.5	1.0	<0.01	1	7.89	DNR	DNR	300	8	<0.2	DNR	<1.1	216	DNR	<0.1	DNR	DNR	DNR	

NOTES:

- 1 Collected by the City of Ontario
- * Primary Maximum Contaminant Level
- ** at Fall Below 2 mg/L in Two Consecutive Samples
- <0.01 Detected at or Above Indicated Detection Limit
- Federal Primary Maximum Contaminant Level**
- CBWM Chino Basin Watermaster
- NC Not Collected
- ND Not Detected
- DNR Detected by laboratory by the time of this report
- NA Field data is not available

Table 3-1
Volume of Diluent and Recycled Water Recharged

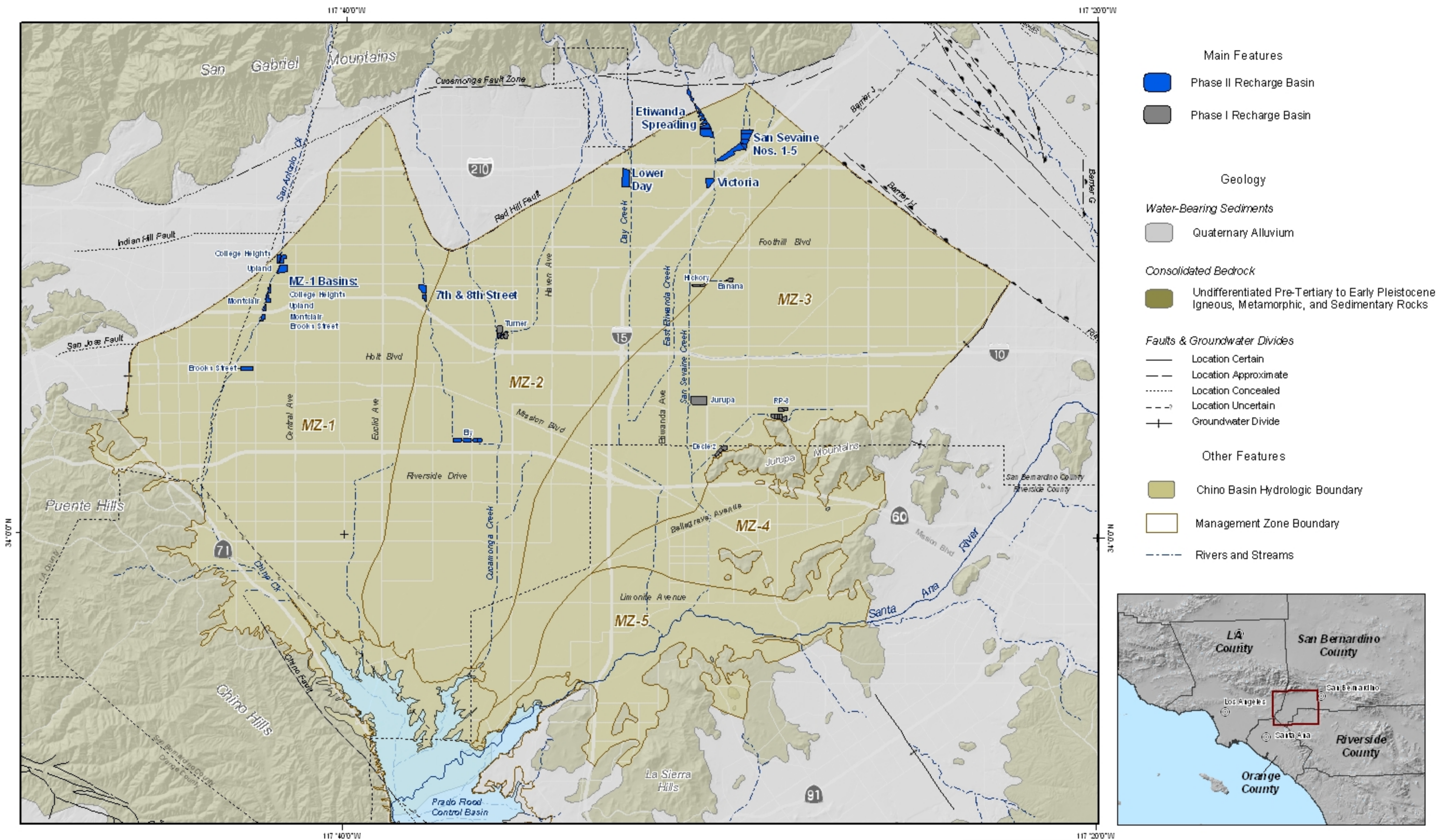
Date	Imported Water	MWD CB18 Water Routing				Local Runoff / Storm Flow				Recycled Water			
	MWD CB-18 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)
07/01/06	9.9	9.9	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	4.6	0.0	0.0
07/02/06	9.9	9.9	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	5.9	0.0	0.0
07/03/06	9.9	9.9	0.0	0.0	0.0	1.0	0.0	0.0	2.0	0.0	4.6	0.0	0.0
07/04/06	5.7	5.7	0.0	0.0	0.0	1.0	0.0	0.0	0.9	0.0	3.2	0.0	0.0
07/05/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.3	0.0	4.6	0.0	0.0
07/06/06	3.8	3.8	0.0	0.0	0.0	1.0	0.0	0.0	1.7	0.0	3.8	0.0	5.0
07/07/06	10.0	10.0	0.0	0.0	0.0	1.0	0.0	0.0	1.6	0.0	3.8	0.0	11.0
07/08/06	10.0	10.0	0.0	0.0	0.0	1.0	0.0	0.0	1.6	0.0	4.0	0.0	11.0
07/09/06	10.0	10.0	0.0	0.0	0.0	1.0	0.0	0.0	1.6	0.0	4.8	0.0	11.0
07/10/06	3.1	3.1	0.0	0.0	0.0	1.0	0.0	0.0	1.6	2.8	2.8	0.0	11.5
07/11/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.6	9.5	0.0	0.0	11.5
07/12/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.6	8.9	0.0	0.0	11.5
07/13/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.5	9.3	0.0	0.0	11.5
07/14/06	5.1	5.1	0.0	0.0	0.0	1.0	0.0	0.0	1.5	9.7	0.0	0.0	11.3
07/15/06	9.1	9.1	0.0	0.0	0.0	1.0	0.0	0.0	1.5	4.0	5.7	0.0	9.8
07/16/06	9.1	9.1	0.0	0.0	0.0	1.0	0.0	0.0	1.5	0.0	9.7	0.0	10.7
07/17/06	2.5	2.5	0.0	0.0	0.0	1.0	0.0	0.0	1.5	2.0	6.9	0.0	11.5
07/18/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0
07/19/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	10.7	0.0	0.0	0.0
07/20/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	10.7	0.0	0.0	0.0
07/21/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0
07/22/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0
07/23/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	9.7	0.0	0.0	0.0
07/24/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0
07/25/06	9.9	0.0	0.0	9.9	0.0	1.0	0.0	0.3	0.0	7.9	0.0	0.0	0.0
07/26/06	20.6	0.0	0.0	20.6	0.0	1.0	0.0	0.4	0.0	9.5	0.0	0.0	0.0
07/27/06	20.7	0.0	0.0	20.7	0.0	1.0	0.0	0.4	0.0	9.7	0.0	0.0	0.0
07/28/06	8.8	0.0	0.0	8.8	0.0	1.0	0.0	0.4	0.8	9.7	0.0	4.3	1.4
07/29/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	1.5	9.7	0.0	7.5	4.1
07/30/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	1.5	9.7	0.0	8.0	4.0
07/31/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	0.6	9.9	0.0	2.5	1.4
08/01/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	0.9	9.3	0.0	0.0	6.7
08/02/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.3	0.6	9.5	0.0	6.7	4.2
08/03/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	1.5	9.7	0.0	0.0	11.5
08/04/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.4	1.5	8.1	0.0	0.0	11.9
08/05/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.4	0.5	8.1	0.0	7.9	4.0
08/06/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.9	0.0	8.1	0.0	11.9	0.0
08/07/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.9	0.0	7.9	0.0	11.9	0.0
08/08/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.9	0.0	8.7	0.0	11.9	0.0
08/09/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.8	0.0	8.9	0.0	11.9	0.0
08/10/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.2	0.6	8.9	0.0	6.9	5.0
08/11/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	1.5	8.9	0.0	0.0	11.9
08/12/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	1.5	8.9	0.0	0.0	11.9
08/13/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.2	1.5	8.9	0.0	0.0	11.9
08/14/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.2	1.5	8.9	0.0	0.0	11.9
08/15/06	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1	1.5	8.9	0.0	0.0	11.9
08/16/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	8.9	0.0	0.0	11.9
08/17/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	8.5	0.0	0.0	11.9
08/18/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	8.5	0.0	0.0	11.9
08/19/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	8.9	0.0	0.0	11.9
08/20/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	8.9	0.0	0.0	11.9
08/21/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	4.0	0.0	0.0	11.9
08/22/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	0.0	0.0	0.0	11.5
08/23/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	0.0	0.0	0.0	11.1

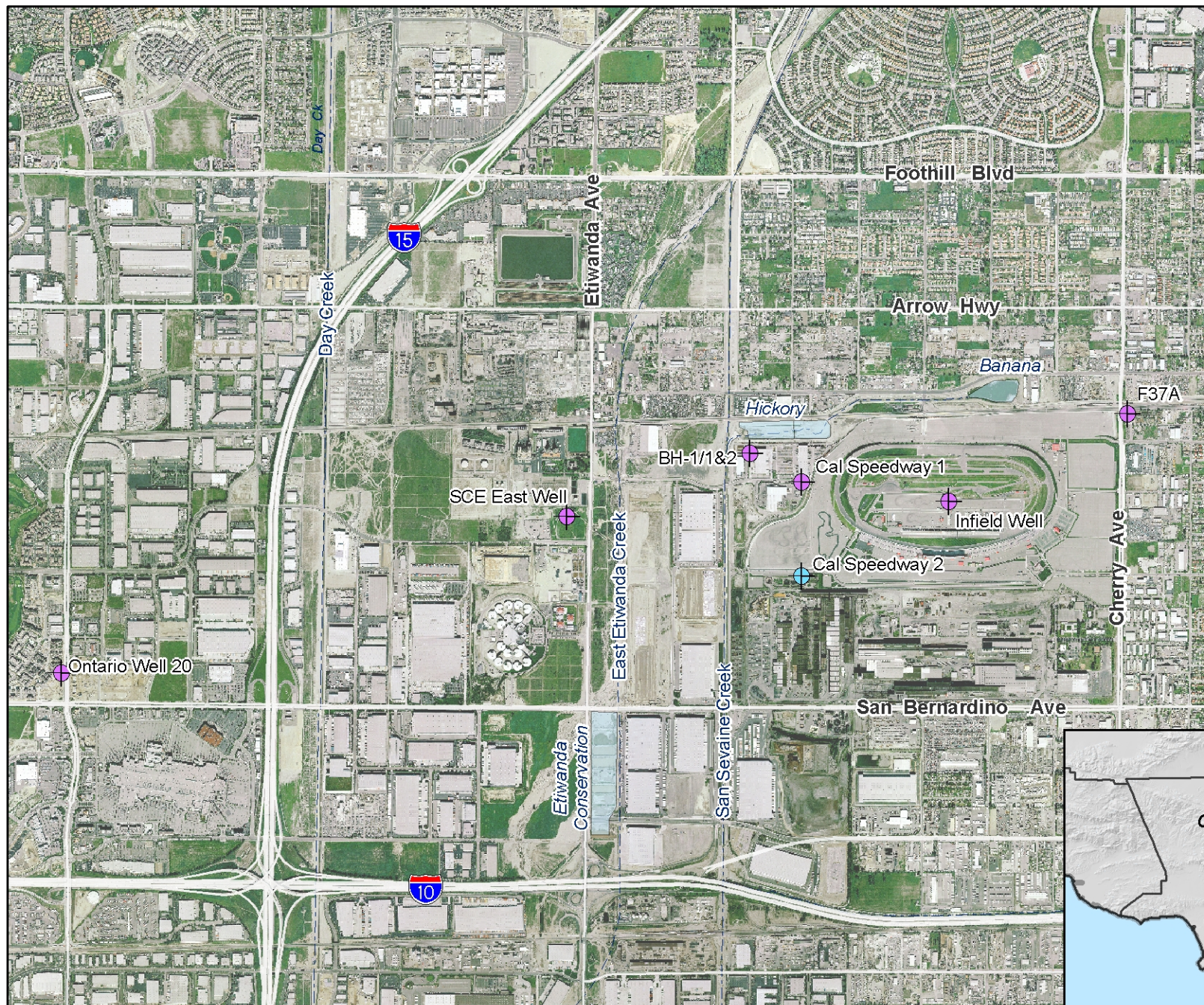


Table 3-1
Volume of Diluent and Recycled Water Recharged

Date	Imported Water	MWD CB18 Water Routing				Local Runoff / Storm Flow				Recycled Water			
	MWD CB-18 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)	Hickory (AF)	Banana (AF)	Turner 1&2 (AF)	Turner 3&4 (AF)
08/24/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	0.0	4.9	0.0	9.5
08/25/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.7	0.8	0.0	10.9	6.1	2.2
08/26/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.6	0.0	0.0	10.9	11.3	0.0
08/27/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.6	0.0	0.0	10.9	11.3	0.0
08/28/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.6	0.0	0.0	11.3	11.5	0.0
08/29/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.7	0.9	0.0	11.5	3.3	7.9
08/30/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	1.5	0.0	12.1	0.0	9.9
08/31/06	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	3.6	0.0	12.3	0.0	9.9
09/01/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.2	0.9	0.0	12.5	4.8	5.8
09/02/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.1	1.5	0.0	12.5	11.5	4.8
09/03/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.8	0.0	12.5	11.5	0.0
09/04/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.4	0.5	0.0	12.7	3.8	7.7
09/05/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.3	0.6	0.0	12.9	2.4	7.3
09/06/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.5	0.4	0.0	12.9	3.6	3.6
09/07/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.0	0.0	12.9	4.0	0.0
09/08/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.0	0.0	13.5	5.8	0.0
09/09/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.0	0.0	11.9	11.7	0.0
09/10/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.0	0.0	12.9	11.7	0.0
09/11/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.9	0.0	0.0	12.1	11.5	0.0
09/12/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.2	0.0	0.0	11.7	11.9	0.0
09/13/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.2	0.0	0.0	12.7	11.9	0.0
09/14/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.3	0.9	0.0	7.8	6.9	5.0
09/15/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.8	0.8	0.0	10.0	4.1	5.8
09/16/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.6	0.0	0.0	12.6	2.0	0.0
09/17/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.3	0.0	0.0	13.1	0.0	0.0
09/18/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.3	0.0	0.0	13.1	0.0	0.0
09/19/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	0.0	0.0	13.1	0.0	0.0
09/20/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	0.0	0.0	13.1	0.0	0.0
09/21/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	0.0	0.0	13.1	0.0	0.0
09/22/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.1	0.0	0.0	13.3	0.0	0.0
09/23/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.1	0.0	0.0	12.7	0.0	0.0
09/24/06	0.0	0.0	0.0	0.0	0.0	3.0	0.0	2.8	0.0	0.0	13.3	0.0	0.0
09/25/06	5.0	0.0	0.0	5.0	0.0	3.0	0.0	3.8	0.0	0.0	13.1	0.0	0.0
09/26/06	12.9	0.0	0.0	9.1	3.8	3.0	0.0	2.9	0.9	0.0	13.3	0.0	0.0
09/27/06	13.5	0.0	0.0	3.9	9.6	3.0	0.0	1.7	2.1	0.0	13.3	0.0	0.0
09/28/06	13.1	0.0	0.0	13.1	0.0	3.0	0.0	3.8	0.0	0.0	13.3	0.0	0.0
09/29/06	13.1	0.0	0.0	13.1	0.0	3.0	0.0	3.8	0.0	0.0	13.3	0.0	0.0
09/30/06	11.1	0.0	0.0	11.1	0.0	3.0	0.0	3.8	0.0	0.0	13.3	0.0	0.0
3Q06 Totals	226.8	98.1	0.0	115.3	13.4	168.0	0.0	74.3	73.1	362.3	527.1	254.3	414.3







-  Existing Monitoring Well
-  Replacement Monitoring Well
-  Recharge Basins



Monitoring Well Network
Hickory and Banana Basins

Figure 2-1

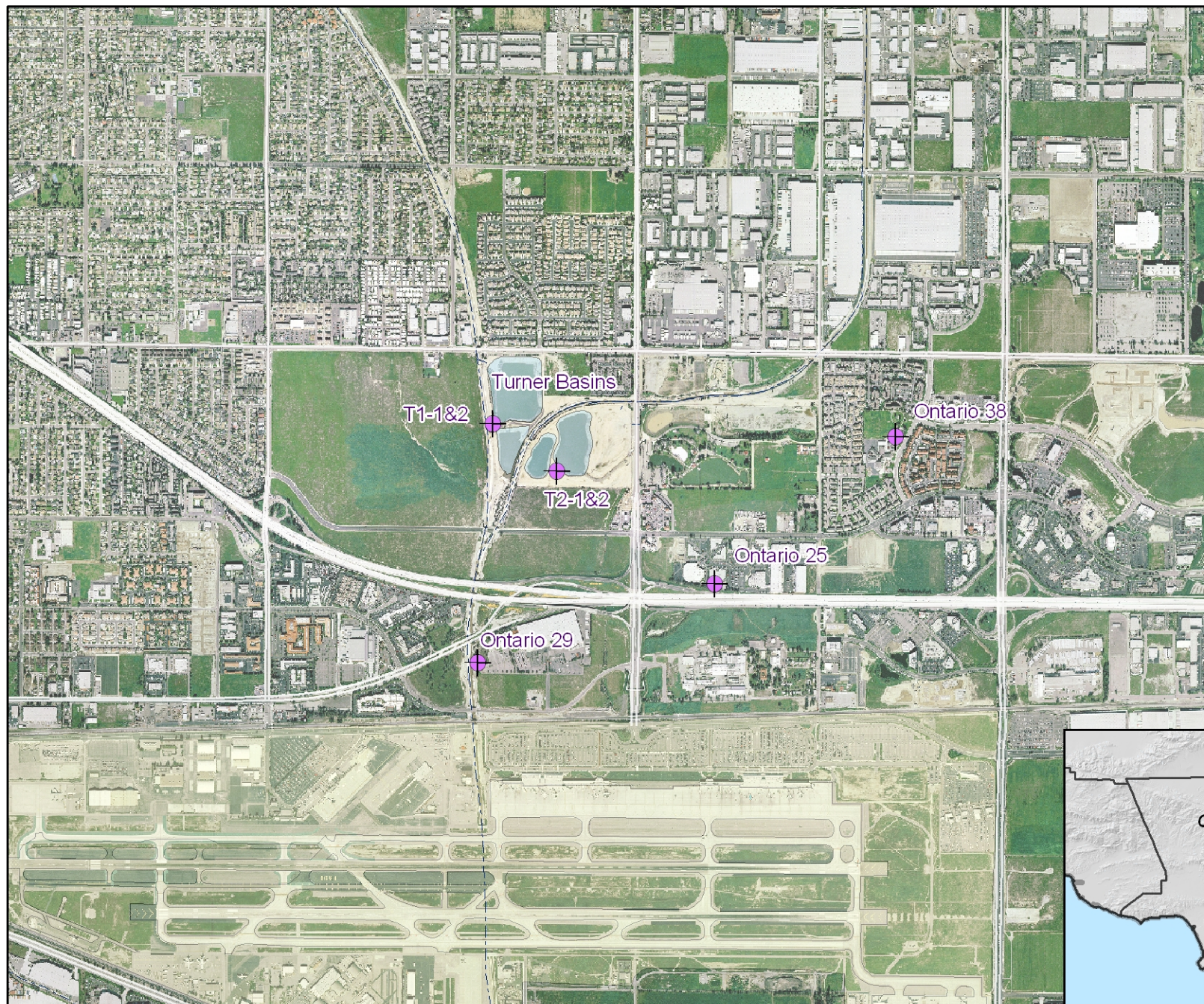


Recycled Water Recharge Program
Quarterly Monitoring Report -- 3Q06



Author: KBM
Date: 20060804
File: Figure_2-1.mxd

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ENVIRONMENTAL INC.



-  Existing Monitoring Well
-  Recharge Basins



Monitoring Well Network Turner Basins

Figure 2-2



Recycled Water Recharge Program
Quarterly Monitoring Report -- 3Q06



Author: KBM
Date: 20061106
File: Figure_2-2.mxd

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 **WILDERMUTH**
ENVIRONMENTAL INC.

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

November 15, 2006

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 July 2006 through September 2006, 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
