

NEWHALL LAND

The Newhall Land and Farming Company
23823 Valencia Boulevard, Valencia, CA 91355
Phone 661-255-4000 Fax 661-255-0761

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submitted via email (mvoong@waterboards.ca.gov)

Ms. Tracy Egoscue
Executive Officer
California Regional Water Quality Control Board
Los Angeles Region
320 West 4th Street, Suite 200
Los Angeles, CA 90013

Attention: Man Voong and LB Nye

Re: Comments on the RWQCB's Draft 2009 Revision of the Clean Water Act Section 303(d) List of Water Quality Limited Segments

Dear Ms. Egoscue,

We appreciate the opportunity to comment on the Draft 2009 Revision of the Clean Water Act (CWA) Section 303(d) List of Water Quality Limited Segments (Draft List). The Newhall Land and Farming Company (Newhall) takes its responsibility to maintain and protect water quality very seriously, and works hard to meet its obligations. Our comments will focus on the listings that are proposed for the upper Santa Clara River (SCR) in Reaches 5 and 6, as shown on the attached figure.

We commend the Regional Water Quality Control Board (RWQCB) for making continued progress toward improving the clarity and objectivity of the 303(d) listing process through the development and implementation of the *Water Quality Control Policy for Developing California's Clean Water Act 303(d) List* (Listing Policy) (September 2004). We understand that the goal of the Listing Policy is to "establish a standardized approach for developing California's 303(d) list" and we support those efforts.

In general, we believe that several modifications should be made to the Draft List for the following purposes:

1. To accurately reflect the actual designated beneficial uses of the Santa Clara River (SCR);
2. To accurately reflect the actual water segment groupings according to Basin Plan reaches;
3. To assure that the listing analysis is based upon evaluation of water quality standards that are appropriate and applicable;
4. To take into account fairly recent "readily available"¹ water quality data that have been collected along the SCR and submitted to the Los Angeles Regional Water Quality Control Board (LARWQCB); and
5. To take into account age and trends in water quality data.

With respect to consideration of available water quality data, Newhall has collected monthly water samples in Reaches 4 and 5 of the SCR since May 2004 as part of a background receiving water monitoring program for its NPDES permit application for the proposed Newhall Ranch Water Reclamation Plant (NRWRP). In September of 2007, the RWQCB issued an NPDES permit for the

¹ Data submitted to Regional Water Quality Control Boards, such as NPDES data, is defined as readily available data in the Listing Policy. Listing Policy, Section 6.1.2.1, p. 18.

proposed NRWPR. In accordance with the permit, semi-annual samples have been collected in reach 5 of the SCR. In addition, the County Sanitation Districts of Los Angeles County (LACSD) also collects monthly receiving water samples throughout Reaches 5 and 6 as part of their NPDES permit monitoring program for their Valencia and Saugus WRPs. These data were previously submitted to the RWQCB through quarterly and annual monitoring reports and are currently publicly available through the NPDES permit reporting program. We request that these data be included in the RWQCB's administrative record and 303(d) database, and that the RWQCB consider these datasets in making listing determinations.

Currently, the *conditional potential* MUN (MUN*) designation is applied in the Basin Plan for SCR Reaches 5 and 6. The conditional potential MUN designation is not enforceable and cannot be used as the basis for regulatory actions. Recognition that the MUN use is not applicable to these receiving waters leads to the conclusion that the proposed listing for iron, specific conductivity (based on secondary MCLs); chlorodibromomethane, dichlorobromomethane; and bis(2-ethylhexyl)phthalate (based on application of California Toxics Rule (CTR) human health criteria using water plus organisms) is not warranted. The objectives used to support the proposed impairments for iron and specific conductance are *drinking* water quality standards (in fact, the standards used were Secondary Maximum Contaminant Levels (SMCL) – which are *aesthetic* drinking water standards that are meant for control of taste and odor). Specifically regarding the proposed iron and specific conductivity listings, the SMCLs that were used as the basis for these listings are “non-enforceable guidelines that are intended to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color and odor. Contaminants are not considered to present a risk to human health at the SMCL.”² Further, SMCLs are intended to be applied to drinking water at the point of delivery, and are an inappropriate standard for natural surface waters, particularly for waters without an MUN designation. Section 6.1.3 of the Listing Policy is instructive with respect to this point as it specifies the use of evaluation guidelines that are “applicable to the beneficial use.” Thus the water quality standards used to evaluate data and determine the potential for impairment of beneficial uses must be applicable and appropriate, to assure an accurate determination of water quality impairment. Therefore, we respectfully request that iron and specific conductivity not be listed in Reaches 5 and 6 since the MUN use is not applicable to those receiving waters. Similarly chlorodibromomethane, dichlorobromomethane; and bis(2-ethylhexyl)phthalate should not be listed in Reaches 5 and 6 since the MUN is not applicable to those receiving waters.

The following bullet points summarize Newhall's primary comments on specific proposed listings for Reaches 5 and 6 of the SCR. These comments are discussed more thoroughly in fact sheets attached to this letter (Attachment A). Attachment “A” and the fact sheets are incorporated into these comments by reference. The fact sheets were prepared to summarize additional available data and technical information pertinent to particular proposed listing decisions for RWQCB consideration.

- **De-list Ammonia, SCR Reach 5 and 6:** It is requested that ammonia be removed from the 303(d) list for Reaches 5 and 6 of the Santa Clara River because existing water quality data demonstrate that the Basin Plan water quality objectives are being met. (See Fact Sheet No.1)
- **De-list Nitrate plus Nitrite, SCR Reach 5:** It is requested that nitrate plus nitrite be removed from the 303(d) list for Reach 5 of the Santa Clara River because existing water quality data demonstrate that the criteria for de-listing has been met (only nine exceedances out of 243 measurements). In light of the data being equal to the delisting criterion, and Section 6.1.5.3 of

² Secondary Drinking Water Regulations: Guidance For Nuisance Chemicals EPA 810/K-92-001 (July 1992); 40 CFR 143 et seq.

the Listing Policy's direction to consider the change (improvement) in a water body segment following the implementation of NDN management measures by the Sanitation Districts as a result of the TMDL implementation plan, nitrate plus nitrite should be delisted. (See Fact Sheet No.1)

- **Do Not List Iron and Specific Conductivity, SCR Reach 5 and 6:** As discussed previously, the proposed listing of iron and specific conductivity in Reaches 5 and 6 of the Santa Clara River does not meet the listing standard since those reaches are designated potential conditional municipal (MUN). Therefore, iron and specific conductivity should not be listed because existing potential MUN beneficial use designation for these reaches has no legal effect and is inapplicable for listing purposes.
- **Do Not List Chlorodibromomethane, Dichlorobromomethane, SCR Reaches 5 and 6:** As discussed previously, the proposed listing of chlorodibromomethane and dichlorobromomethane in Reaches 5 and 6 of the Santa Clara River does not meet the listing standard since those reaches are designated potential conditional municipal (MUN). Therefore, chlorodibromomethane and dichlorobromomethane should not be listed because existing potential MUN beneficial use designation for these reaches has no legal effect and is inapplicable for listing purposes. In addition, evaluation of the existing data for Reaches 5 and 6 indicate that these water bodies do not meet the State listing criteria when using the CTR human health criteria for consumption of organism only.
- **Do Not List Bis(2ethylhexyl)phthalate (DEHP), SCR Reach 6:** As discussed previously, the proposed listing of bis(2-ethylhexyl)phthalate in Reaches 5 and 6 of the Santa Clara River does not meet the listing standard since those reaches are designated potential conditional municipal (MUN). Additionally, one LADPW sample season (2003-2004) used for the proposed listing appears to have been contaminated (79 percent of the samples) by sampling equipment (e.g. plastic tubing) and should not be applied in conjunction with the other four years where DEHP was not detected in any samples.
- **Delist Chlorpyrifos, SCR Reach 6:** Chlorpyrifos was added to the 303(d) list in 2006. There have been only two exceedances of the 4-day Criterion Continuous Concentration (CCC) threshold from a combined LADPW and SWAMP set of samples; two or less exceedances is the delisting criteria in the listing policy. In addition, chlorpyrifos has been phased out by EPA for non-agricultural uses, including the cessation of sales of all indoor and outdoor residential use products. In light of the data being equal to the delisting criterion, and Section 6.1.5.3 of the Listing Policy's direction to consider the change (improvement) in a water body segment following the implementation management measures, chlorpyrifos should be delisted. (See Fact Sheet No.2)
- **Do Not List Copper, SCR Reach 6:** The proposed listing of copper for Reach 6 is based on Staff's analysis of MS4 data only. When considered with data provided by the Sanitation District and others, only three exceedances of the CCC and two exceedances of the CMC were observed from sample lots of 69 and 71, respectively. Copper does not meet the minimum of six exceedances of the CCC and CMC as required by the Listing Policy. Therefore, copper should not be listed for Reach 6 because water quality objectives are currently being achieved. (See Fact Sheet No.3)
- **Delist Diazinon, SCR Reach 6:** More recent data for diazinon should be considered preferentially consistent with EPA guidance and the Listing Policy regarding temporal representation of data. Two substantial source controls for diazinon have been imposed:

USEPA's 2004 ban on residential use of the pesticide, and the provisions and conditions of the Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands within the Los Angeles Region (Order No. R4-2005-0080) (the "Ag Waiver") adopted by the LARWQCB in 2005. Post-ban data demonstrate that only two of 29 samples exceeded the applicable threshold, thus the listing of diazinon for this reach is not warranted per the listing policy and should be delisted. Should the RWQCB maintain this proposed listing despite EPA Guidance and the Listing Policy, diazinon in Reach 6 should be listed under the "Water Quality Limited Segments Being Addressed" category due to the existing USEPA ban on diazinon sales for residential use and monitoring and control of diazinon required pursuant to the Ag. Waiver. Nonetheless, the small number of diazinon exceedances since the ban warrants delisting. (See Fact Sheet No.4)

- **Do Not List DDT, SCR Reach 5:** Pursuant to the draft 303(d) fact sheet for this proposed listing, SWAMP data for Castaic Creek was included in the primary data set supporting the proposed listing for SCR Reach 5. Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated uses that are independent of SCR Reach 5. Therefore DDT data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in determining a listing for SCR Reach 5. SCR Reach 5 data shows that only 1 of 2 samples exceeded the water quality standard. Thus available SCR Reach 5 data do not meet the Listing Policy requirements for number of exceedances, and no new listing is warranted for DDT in SCR Reach 5. A similar listing deficiency was acknowledged by Staff in 2006 when DDT in Reach 6 were not placed on the 303(d) list due to comparable circumstances from samples in Bouquet Creek. Furthermore, the 2001 SWAMP data does not appear to be representative of typical or long-term conditions within the waterbody (Santa Clara River Reach 5), as well as being a collected from a separately-defined reach (Castaic Creek) by the Basin Plan. (See Fact Sheet No.5)
- **Do Not List PCBs, SCR Reach 5:** Pursuant to the draft 303(d) fact sheet for this proposed listing, SWAMP data for Castaic Creek was included in the primary data set supporting the proposed listing for SCR Reach 5. Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated uses that are independent of SCR Reach 5. Therefore PCB data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in determining a listing for SCR Reach 5. SCR Reach 5 data shows that only 1 of 2 samples exceeded the water quality standard. Thus available SCR Reach 5 data do not meet the Listing Policy requirements for number of exceedances, and no new listing is warranted for PCBs in SCR Reach 5. Furthermore, the 2001 SWAMP data does not appear to be representative of typical or long-term conditions within the waterbody (Santa Clara River Reach 5), as well as being a collected from a separately-defined reach (Castaic Creek) by the Basin Plan. (See Fact Sheet No.6)
- **Do Not List Toxicity, SCR Reach 6:** Section 3.6 of the Listing Policy states, "If the pollutant causing or contributing to the toxicity is identified, the pollutant shall be included on the section 303(d) list as soon as possible (i.e., during the next listing cycle)." Appendix B of the 2005 SWAMP report *Water Quality in the Calleguas Creek and Santa Clara River Watersheds* identifies diazinon as the probable cause of toxicity in the Reach 6 (Bouquet Creek) samples. Therefore, the proposed toxicity listing in Reach 6 should be replaced with diazinon, consistent with these scientific findings and the guidelines of the Listing Policy. However, due to the existing USEPA diazinon ban, diazinon should either not be listed (since by preferentially using post-ban data only, listing would not be warranted), or be listed under the "Water Quality Limited

Segments Being Addressed” category (see above comments on Reach 6 proposed diazinon listing).

Pursuant to the RWQCB staff report Section 3.3.3, comments were solicited on the possible use of biostimulatory substances in future impairment determinations. Any establishment of water quality objectives involving biostimulatory substances (nitrogen, phosphorus and other compounds that stimulate growth) or other physical parameters (dissolved oxygen, temperature, etc) should be subject to detailed analysis under the State Basin Plan amendment process, including compliance with the California Environmental Quality Act (CEQA) and other requirements under State law.

In addition, the Newhall Ranch Sanitation District NDPES discharge permit incorporates nutrient-related water quality objectives, including algal biomass. Furthermore, the RWQCB should wait until the SWRCB releases its Nutrient Numeric Endpoint guidance, which is currently under peer review. Nutrient criteria developed by the SWRCB and USEPA Region 9 is described in the report, "Technical Approach to Develop Nutrient Numeric Endpoints for California" ("CA NNE"), released in 2006.

Thank you again for the opportunity to comment on the Draft List. We would be happy to discuss our comments in a follow-up meeting with RWQCB staff. Please contact me at 661-255-4259 to discuss our comments or any address questions you may have.

Sincerely,
THE NEWHALL LAND & FARMING COMPANY



Matt Carpenter
Director, Environmental Resources

Attachments

cc: LB Nye
M. Voong
M. Subbotin

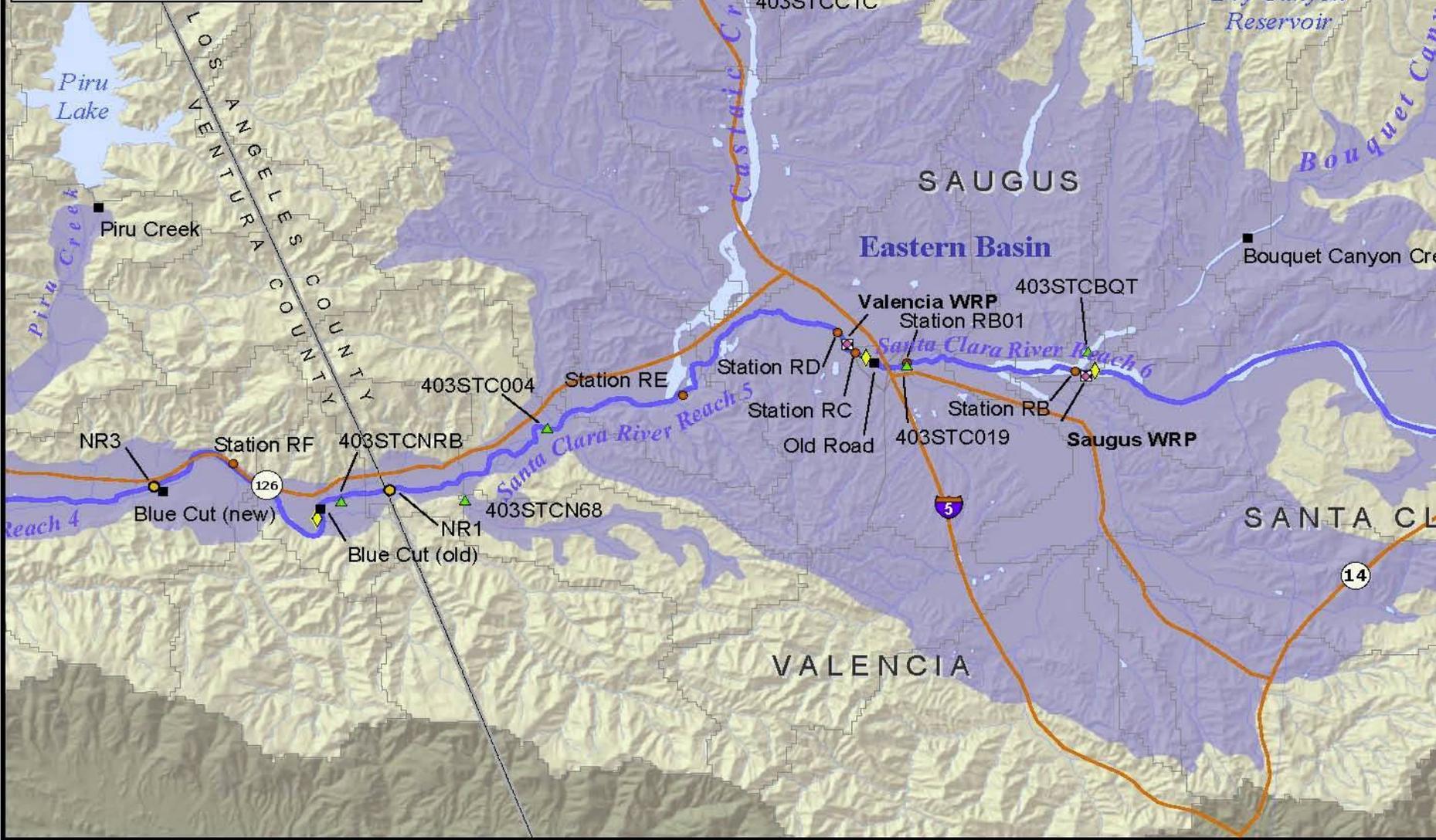
Upper Santa Clara River Watershed

Legend

	Water reclamation plants		Santa Clara River
	Gaging station		Counties
	Water quality monitoring station		Subcatchments
	Reach divisions		Water Bodies
	sample-location-062004		Water Courses
	swamp-locations		Major Roads
			2001 DWR groundwater basins

0 2,500 5,000 10,000 Feet

GEO-SYNTEC CONSULTANTS
SANTA BARBARA, CALIFORNIA



ATTACHMENT

FACT SHEETS ON SPECIFIC LISTINGS

Fact Sheet #1: Ammonia/Nitrate+Nitrite

Fact Sheet #2: Chlorpyrifos

Fact Sheet #3: Copper

Fact Sheet #4: Diazanone

Fact Sheet #5: DDT

Fact Sheet #6: PCBs

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 1

**LISTING: Ammonia in SCR Reaches 5 and 6
Nitrate + Nitrite Reach 5**

Listed on the 303(d) list (Being Addressed by an EPA Approved TMDL)

RECOMMENDATION:

De-list-Water Quality Objectives Currently Being Achieved

REASON:

Current data show attainment of water quality standard
Data does not meet requirements of Table 3.1 for Listing
Data meet requirements of Table 4.1 for De-Listing

We request that Santa Clara River Reaches 5 (Blue Cut to West Pier Hwy 99) and 6 (West Pier Hwy 99 to Bouquet Canyon Road Bridge) be removed from the 303(d) list as impaired due to ammonia and Nitrate+Nitrite. Current water quality data show that the Basin Plan's water quality objectives for ammonia and Nitrate+Nitrite are being met and, therefore, no impairment exists.

The nitrification/denitrification treatment upgrades at the Valencia Water Reclamation Plant completed in October 2003 have resulted in significant reductions in ammonia and associated Nitrate and Nitrite loadings to Santa Clara River Reaches 5 and 6.

Santa Clara River Reaches 5 and 6 ammonia, nitrate and nitrite, pH, and temperature data (October 2003 through February 2007) collected by the Sanitation District of Los Angeles County (Sanitation Districts), as well as data from Newhall Land (Newhall Ranch Sanitation District background data collection reach 5 only), show the four-day chronic Criterion Continuous Concentration (CCC) threshold for ammonia was never exceeded in Reach 5 out of a total of 146 measurements, as shown in Appendix A, Table 1 and only twice in Reach 6 out of a total of 73 measurements, as shown in Appendix A, Table 2).

The data set supports de-listing ammonia for Santa Clara River Reach 5, even without consideration of the recently approved site-specific objectives for ammonia. For a sample size of 142 to 152, using the binomial distribution formula associated with Table 4.1, the State 303(d) Listing Policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances is equal to, or fewer than 12. For a sample size of 72 to 82, Table 4.1 recommends de-listing if the number of exceedances are equal to or fewer than six. Additionally, the single sample Criterion

Maximum Concentration (CMC) was not exceeded out of 218 samples collected on Reach 5 and 78 samples on Reach 6.

Since no exceedances of the water quality standards were observed in Santa Clara River Reach 5 out of 146 measurements, Santa Clara River Reach 5 should be de-listed for ammonia. Since only two exceedances of the water quality standards were observed in Santa Clara River Reach 6 out of 73 measurements, Santa Clara River Reach 6 should also be delisted for ammonia.

The water quality objective for nitrate + nitrite is based on historic water quality conditions and requires a mean 30-day nitrate + nitrite concentration less than 5.0 mg/L as N. For the data review period (March 2004 through September 2007), 104 results from Sanitation Districts and 139 results from Newhall Land data (Newhall Ranch Sanitation District background data) were available for evaluation. As shown in Appendix A, Table 3, the evaluation revealed that the nitrate + nitrite water quality objective was exceeded nine times, out of a total of 243 measurements. For a sample size of 235 to 246 the State's 303(d) Listing Policy, delisting is recommended if exceedances are equal to or fewer than 20. Therefore, Santa Clara River Reach 5 should be de-listed for nitrate + nitrite.

It is clear that exceedances are infrequent and limited only to stations RD and RE (immediately downstream of the Valencia WRP). Furthermore, it should be noted that exceedances have been rarer since the implementation of nitrification-denitrification (NDN) processes at the Valencia and Saugus WRPs, which were on line as of September 2003. The more recent data (i.e., after NDN implementation) should be used preferentially, consistent with Section 6.1.5.3 of the Listing Policy, which further supports removal of the proposed listings. Summarized data, as provided by County Sanitation District, is provided in Appendix A, Table 3. Section 6.1.5.3 of the Listing Policy states, "If the implementation of a management practice(s) has resulted in a change in the water body segment, only recently collected data [since the implementation of the management measure(s)] should be considered."

Appendix A, Table 2

SANTA CLARA RIVER REACH 6 - AMMONIA

Sample Date	Source	Location	pH	Temp (C)	Qualifier	Ammonia (mg/L)	4-Day Average Ammonia (mg/L)	CMC (mg/L)	CCC No SSO (mg/L)	4-Day CCC (mg/L)	Does Sample Exceed CMC? (1=Yes)	Does Sample Exceed 4-Day CCC? (1=Yes)
10/15/2003	LACSD	RB	7.34	27.3		3.38	*	24.90	2.17	*		*
10/19/2003	LACSD	RB	7.47	26.5		1.49	2.44	20.79	2.07	2.12		1
10/20/2003	LACSD	RB	7.35	27.2		1.16	1.33	24.58	2.17	2.12		
2/11/2004	LACSD	RB	7.35	27.9		1.50	1.50	24.58	2.07	2.07		
2/11/2004	LACSD	RB01	7.88	22.7	<	0.10	0.10	10.51	1.69	1.69		
4/14/2004	LACSD	RB	7.36	21.6	<	0.10	*	24.25	3.10	*		*
4/14/2004	LACSD	RB	7.36	21.6	<	0.10	0.10	24.25	3.10	3.10		
4/14/2004	LACSD	RB01	7.90	23.7	<	0.10	0.10	10.13	1.55	1.55		
5/12/2004	LACSD	RB	7.35	30.5		0.50	0.50	24.58	1.75	1.75		
5/12/2004	LACSD	RB01	7.94	31.8	<	0.10	0.10	9.41	0.87	0.87		
6/9/2004	LACSD	RB	7.37	32.8	<	0.10	0.10	23.93	1.49	1.49		
8/11/2004	LACSD	RB	7.37	28.6	<	0.10	0.10	23.93	1.95	1.95		
8/11/2004	LACSD	RB01	7.76	23.0	<	0.10	0.10	13.02	1.93	1.93		
9/15/2004	LACSD	RB	7.62	28.7		0.10	0.10	16.49	1.56	1.56		
9/15/2004	LACSD	RB01	7.83	21.0	<	0.10	0.10	11.51	2.02	2.02		
10/13/2004	LACSD	RB	7.74	27.0		0.20	0.20	13.48	1.53	1.53		
10/13/2004	LACSD	RB01	8.00	19.5	<	0.10	0.10	8.41	1.77	1.77		
11/10/2004	LACSD	RB	7.34	24.7		2.60	2.60	24.90	2.56	2.56		1
11/10/2004	LACSD	RB01	7.88	17.7		0.20	0.20	10.51	2.34	2.34		
12/16/2004	LACSD	RB	7.47	23.0	<	0.10	0.10	20.79	2.59	2.59		
12/16/2004	LACSD	RB01	7.73	16.0	<	0.10	0.10	13.72	3.14	3.14		
2/2/2005	LACSD	RB	7.27	21.5		1.60	1.60	27.21	3.30	3.30		
2/2/2005	LACSD	RB01	7.80	17.5	<	0.10	0.10	12.14	2.63	2.63		
2/9/2005	LACSD	RB	7.36	21.6		0.20	0.20	24.25	3.09	3.09		
2/16/2005	LACSD	RB01	8.00	19.9		0.10	0.10	8.41	1.72	1.72		
3/2/2005	LACSD	RB	7.46	21.5		0.90	0.90	21.10	2.88	2.88		
3/10/2005	LACSD	RB01	8.29	22.8	<	0.10	0.10	4.81	0.91	0.91		
4/13/2005	LACSD	RA	8.42	28.9		0.20	0.20	3.74	0.49	0.49		
4/13/2005	LACSD	RB	7.57	22.1		0.20	0.20	17.86	2.51	2.51		
4/13/2005	LACSD	RB01	8.09	22.5	<	0.10	0.10	7.08	1.27	1.27		
5/18/2005	LACSD	RB	7.61	23.6		2.10	2.10	16.76	2.19	2.19		
5/18/2005	LACSD	RB01	7.95	25.9	<	0.10	0.10	9.23	1.26	1.26		
6/15/2005	LACSD	RB	7.47	25.3		0.50	0.50	20.79	2.24	2.24		
6/15/2005	LACSD	RB01	7.89	26.4	<	0.10	0.10	10.32	1.32	1.32		
7/20/2005	LACSD	RB	7.30	26.6		0.80	0.80	26.21	2.33	2.33		
7/20/2005	LACSD	RB01	7.92	26.7	<	0.10	0.10	9.76	1.24	1.24		
8/17/2005	LACSD	RB	7.35	27.1		0.90	0.90	24.58	2.18	2.18		
8/17/2005	LACSD	RB01	7.87	25.4	<	0.10	0.10	10.70	1.44	1.44		
9/14/2005	LACSD	RB	7.32	26.5		1.10	1.10	25.56	2.31	2.31		
9/14/2005	LACSD	RB01	7.91	22.9	<	0.10	0.10	9.95	1.61	1.61		
10/26/2005	LACSD	RB	7.18	25.4	<	0.10	0.10	30.21	2.70	2.70		
10/26/2005	LACSD	RB01	7.61	21.3	<	0.10	0.10	16.76	2.55	2.55		
11/29/2005	LACSD	RB01	7.84	16.8	<	0.10	0.10	11.30	2.62	2.62		
11/30/2005	LACSD	RB	7.44	23.6		0.20	*	21.72	2.55	*		*
11/30/2005	LACSD	RB	7.44	23.6		0.10	0.15	21.72	2.55	2.55		
12/20/2005	LACSD	RB01	7.90	16.7	<	0.10	0.10	10.13	2.44	2.44		
12/21/2005	LACSD	RB	7.41	22.8		0.90	0.90	22.66	2.76	2.76		
1/17/2006	LACSD	RB01	7.86	17.6	<	0.10	0.10	10.90	2.43	2.43		
1/18/2006	LACSD	RA	7.92	17.7		0.10	0.10	9.76	2.21	2.21		
1/18/2006	LACSD	RB	7.27	21.7		1.00	1.00	27.21	3.26	3.26		

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 2

SANTA CLARA RIVER REACH 6 - AMMONIA

2/14/2006	LACSD	RB01	7.74	19.2	<	0.10	0.10	13.48	2.53	2.53		
2/15/2006	LACSD	RA	8.18	17.5		0.10	0.10	5.95	1.53	1.53		
2/15/2006	LACSD	RB	7.57	22.2		1.10	1.10	17.86	2.50	2.50		
3/14/2006	LACSD	RB01	7.87	20.6	<	0.10	0.10	10.70	1.97	1.97		
3/14/2006	LACSD	RB01	7.87	20.6	<	0.10	0.10	10.70	1.97	1.97		
3/15/2006	LACSD	RA	8.22	20.6	<	0.10	0.10	5.51	1.17	1.17		
3/15/2006	LACSD	RB	7.44	21.4		1.20	1.20	21.72	2.94	2.94		
4/18/2006	LACSD	RB01	7.82	19.3	<	0.10	0.10	11.71	2.28	2.28		
4/19/2006	LACSD	RA	8.09	24.4	<	0.10	0.10	7.08	1.13	1.13		
4/19/2006	LACSD	RB	7.59	23.1		0.71	0.71	17.31	2.31	2.31		
5/16/2006	LACSD	RB01	7.91	25.0	<	0.10	*	9.95	1.40	*		*
5/16/2006	LACSD	RB01	7.91	25.0	<	0.10	0.10	9.95	1.40	1.40		
5/17/2006	LACSD	RA	8.00	26.8	<	0.10	0.10	8.41	1.10	1.10		
5/17/2006	LACSD	RB	6.88	24.2		0.56	0.56	39.75	3.29	3.29		
6/21/2006	LACSD	RB	7.52	26.7		0.74	0.74	19.30	1.96	1.96		
7/19/2006	LACSD	RA	7.67	18.6	<	0.10	0.10	15.19	2.84	2.84		
7/19/2006	LACSD	RB	7.40	27.5		1.20	1.20	22.97	2.05	2.05		
8/23/2006	LACSD	RA	7.66	19.3	<	0.10	0.10	15.44	2.74	2.74		
8/23/2006	LACSD	RB	7.48	27.9		0.96	*	20.49	1.87	*		*
8/23/2006	LACSD	RB	7.48	27.9		1.10	1.03	20.49	1.87	1.87		
9/13/2006	LACSD	RB	7.57	27.7		0.86	0.86	17.86	1.75	1.75		
10/18/2006	LACSD	RB	7.60	26.2	<	0.10	0.10	17.03	1.88	1.88		
10/18/2006	LACSD	RB01	7.70	18.4		0.13	0.13	14.44	2.78	2.78		
11/15/2006	LACSD	RB	7.03	25.8		1.00	1.00	35.14	2.83	2.83		
11/15/2006	LACSD	RB01	7.22	18.8	<	0.10	0.10	28.87	4.05	4.05		
12/20/2006	LACSD	RB	7.47	23.2	<	0.10	0.10	20.79	2.56	2.56		
2/14/2007	LACSD	RB	7.59	22.3		1.08	1.08	17.31	2.43	2.43		
2/28/2007	LACSD	RB	7.40	22.2		0.98	0.98	22.97	2.88	2.88		

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land
 LACSD - Sanitation Districts of Los Angeles County

**2 of 73 4-day averages exceed
 Criterion Continuous Concentration (CCC)**

* - Data used in calculation of a 4 day average

**0 of 78 samples exceed
 Criterion Maximum Concentration (CMC)**

Appendix A, Table 3
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
5/17/2004	Newhall	NR1	<	0.1	3.52	3.62	5.0	
5/17/2004	Newhall	NR3	<	0.1	2.94	3.04	5.0	
5/18/2004	Newhall	NR1	<	0.1	3.06	3.16	5.0	
5/18/2004	Newhall	NR3	<	0.1	2.98	3.08	5.0	
5/19/2004	Newhall	NR1	<	0.1	3.45	3.55	5.0	
5/19/2004	Newhall	NR3	<	0.1	3.69	3.79	5.0	
5/20/2004	Newhall	NR1	<	0.1	3.52	3.62	5.0	
5/20/2004	Newhall	NR3	<	0.1	2.85	2.95	5.0	
5/21/2004	Newhall	NR1	<	0.1	4.01	4.11	5.0	
5/21/2004	Newhall	NR3	<	0.1	4.01	4.11	5.0	
6/9/2004	LACSD	RC		0.028	2.41	2.438	5.0	
6/9/2004	LACSD	RD		0.17	4.86	5.03	5.0	1
6/9/2004	LACSD	RE		0.192	6.09	6.282	5.0	1
6/17/2004	Newhall	NR1	<	0.1	4.56	4.66	5.0	
6/17/2004	Newhall	NR3	<	0.1	4.05	4.15	5.0	
7/15/2004	Newhall	NR1	<	0.1	4.9	5	5.0	
7/15/2004	Newhall	NR3	<	0.1	4.64	4.74	5.0	
7/28/2004	LACSD	RC		0.028	2.06	2.088	5.0	
7/28/2004	LACSD	RD		0.09	5.7	5.79	5.0	1
7/28/2004	LACSD	RE		0.053	4.54	4.593	5.0	
8/9/2004	Newhall	NR1	<	0.1	4.28	4.38	5.0	
8/9/2004	Newhall	NR3	<	0.1	3.75	3.85	5.0	
8/10/2004	Newhall	NR1	<	0.1	4.4	4.5	5.0	
8/10/2004	Newhall	NR3	<	0.1	4.03	4.13	5.0	
8/11/2004	LACSD	RC		0.024	1.93	1.954	5.0	
8/11/2004	LACSD	RD		0.101	4.75	4.851	5.0	
8/11/2004	LACSD	RE		0.06	3.94	4	5.0	
8/11/2004	Newhall	NR1	<	0.1	4.41	4.51	5.0	
8/11/2004	Newhall	NR3	<	0.1	4.24	4.34	5.0	
8/12/2004	Newhall	NR1	<	0.1	4.72	4.82	5.0	
8/12/2004	Newhall	NR3	<	0.1	5.12	5.22	5.0	1
8/13/2004	Newhall	NR1	<	0.1	3.25	3.35	5.0	
8/13/2004	Newhall	NR3	<	0.1	3.63	3.73	5.0	
9/15/2004	LACSD	RC	<	0.02	2.12	2.14	5.0	
9/15/2004	LACSD	RD		0.114	5.31	5.424	5.0	1
9/15/2004	LACSD	RE		0.021	4.36	4.381	5.0	
9/20/2004	Newhall	NR1	<	0.1	2.59	2.69	5.0	
9/20/2004	Newhall	NR3	<	0.1	2.55	2.65	5.0	
10/13/2004	LACSD	RC	<	0.02	2.49	2.51	5.0	
10/13/2004	LACSD	RD		0.12	4.73	4.85	5.0	
10/13/2004	LACSD	RE		0.022	3.74	3.762	5.0	
10/14/2004	Newhall	NR1	<	0.1	3.21	3.31	5.0	
10/14/2004	Newhall	NR3	<	0.1	3	3.1	5.0	
11/8/2004	Newhall	NR1	<	0.1	3.32	3.42	5.0	
11/8/2004	Newhall	NR3		0.167	2.83	2.997	5.0	
11/9/2004	Newhall	NR1		0.102	3.03	3.132	5.0	
11/9/2004	Newhall	NR3	<	0.1	3.31	3.41	5.0	
11/10/2004	LACSD	RC		0.031	2.37	2.401	5.0	
11/10/2004	LACSD	RD		0.041	6.66	6.701	5.0	1
11/10/2004	LACSD	RE		0.065	4.99	5.055	5.0	1

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 3
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
11/10/2004	Newhall	NR1		0.209	3.88	4.089	5.0	
11/10/2004	Newhall	NR3		0.164	4.22	4.384	5.0	
11/11/2004	Newhall	NR1		0.14	3.79	3.93	5.0	
11/11/2004	Newhall	NR3		0.135	3.98	4.115	5.0	
11/12/2004	Newhall	NR1		0.169	3.37	3.539	5.0	
11/12/2004	Newhall	NR3		0.154	3.78	3.934	5.0	
12/8/2004	Newhall	NR1	<	0.1	3.49	3.59	5.0	
12/8/2004	Newhall	NR3	<	0.1	3.73	3.83	5.0	
12/16/2004	LACSD	RC		0.05	2.51	2.56	5.0	
12/16/2004	LACSD	RD		0.07	5.16	5.23	5.0	1
12/16/2004	LACSD	RE		0.07	3.99	4.06	5.0	
1/24/2005	Newhall	NR1	<	0.1	2.58	2.68	5.0	
1/24/2005	Newhall	NR3	<	0.1	2.78	2.88	5.0	
2/2/2005	LACSD	RC		0.04	1.77	1.81	5.0	
2/2/2005	LACSD	RD		0.06	6.31	6.37	5.0	1
2/2/2005	LACSD	RE		0.07	3.54	3.61	5.0	
2/9/2005	LACSD	RC	<	0.03	1.91	1.94	5.0	
2/9/2005	LACSD	RD		0.03	3.18	3.21	5.0	
2/9/2005	LACSD	RE		0.05	4.26	4.31	5.0	
2/14/2005	Newhall	NR1	<	0.1	2.18	2.28	5.0	
2/14/2005	Newhall	NR3	<	0.1	2.38	2.48	5.0	
2/15/2005	Newhall	NR1	<	0.1	2.57	2.67	5.0	
2/15/2005	Newhall	NR3	<	0.1	2.58	2.68	5.0	
2/16/2005	Newhall	NR1	<	0.1	2.76	2.86	5.0	
2/16/2005	Newhall	NR3	<	0.1	2.62	2.72	5.0	
2/17/2005	Newhall	NR1	<	0.1	2.52	2.62	5.0	
2/17/2005	Newhall	NR3	<	0.1	2.57	2.67	5.0	
2/18/2005	Newhall	NR3	<	0.1	1.38	1.48	5.0	
3/2/2005	LACSD	RC	<	0.03	2.1	2.13	5.0	
3/2/2005	LACSD	RD	<	0.03	2.06	2.09	5.0	
3/2/2005	LACSD	RE	<	0.03	0.69	0.72	5.0	
3/9/2005	Newhall	NR1	<	0.1	0.97	1.07	5.0	
3/9/2005	Newhall	NR3	<	0.1	1.26	1.36	5.0	
4/13/2005	LACSD	RC	<	0.03	1.42	1.45	5.0	
4/13/2005	LACSD	RD	<	0.03	2.26	2.29	5.0	
4/13/2005	LACSD	RE	<	0.03	0.48	0.51	5.0	
4/13/2005	Newhall	NR1	<	0.1	1.92	2.02	5.0	
4/13/2005	Newhall	NR3	<	0.1	2.42	2.52	5.0	
5/9/2005	Newhall	NR1	<	0.1	1.63	1.73	5.0	
5/9/2005	Newhall	NR3	<	0.1	1.95	2.05	5.0	
5/10/2005	Newhall	NR1	<	0.1	1.86	1.96	5.0	
5/10/2005	Newhall	NR3	<	0.1	2.2	2.3	5.0	
5/11/2005	Newhall	NR1	<	0.1	2.28	2.38	5.0	
5/11/2005	Newhall	NR3	<	0.1	2.79	2.89	5.0	
5/12/2005	Newhall	NR1	<	0.1	2	2.1	5.0	
5/12/2005	Newhall	NR3	<	0.1	2.41	2.51	5.0	
5/13/2005	Newhall	NR1	<	0.1	1.57	1.67	5.0	
5/13/2005	Newhall	NR3	<	0.1	1.9	2	5.0	
5/18/2005	LACSD	RC	<	0.03	1.7	1.73	5.0	
5/18/2005	LACSD	RD	<	0.03	3.79	3.82	5.0	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 3

SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
5/18/2005	LACSD	RE	<	0.03	0.92	0.95	5.0	
6/15/2005	LACSD	RC	<	0.03	1.45	1.48	5.0	
6/15/2005	LACSD	RD	<	0.03	3.02	3.05	5.0	
6/15/2005	LACSD	RE	<	0.03	1.1	1.13	5.0	
6/15/2005	Newhall	NR1	<	0.1	1.96	2.06	5.0	
6/15/2005	Newhall	NR3	<	0.1	2.01	2.11	5.0	
7/20/2005	LACSD	RC	<	0.03	1.34	1.37	5.0	
7/20/2005	LACSD	RD		0.06	2.35	2.41	5.0	
7/20/2005	LACSD	RE	<	0.03	0.58	0.61	5.0	
7/20/2005	Newhall	NR1	<	0.1	1.67	1.77	5.0	
7/20/2005	Newhall	NR3	<	0.1	1.75	1.85	5.0	
8/8/2005	Newhall	NR1	<	0.1	1.08	1.18	5.0	
8/8/2005	Newhall	NR3	<	0.1	1.11	1.21	5.0	
8/9/2005	Newhall	NR1	<	0.1	1.22	1.32	5.0	
8/9/2005	Newhall	NR3	<	0.1	1.2	1.3	5.0	
8/10/2005	Newhall	NR1	<	0.1	1.19	1.29	5.0	
8/10/2005	Newhall	NR3	<	0.1	1.41	1.51	5.0	
8/11/2005	Newhall	NR1	<	0.1	1.23	1.33	5.0	
8/11/2005	Newhall	NR3	<	0.1	1.36	1.46	5.0	
8/12/2005	Newhall	NR1	<	0.1	1.3	1.4	5.0	
8/12/2005	Newhall	NR3	<	0.1	1.2	1.3	5.0	
8/17/2005	LACSD	RC	<	0.03	1.61	1.64	5.0	
8/17/2005	LACSD	RD		0.06	3.47	3.53	5.0	
8/17/2005	LACSD	RE		0.06	3.06	3.12	5.0	
9/14/2005	LACSD	RC	<	0.03	1.31	1.34	5.0	
9/14/2005	LACSD	RD		0.06	3.05	3.11	5.0	
9/14/2005	LACSD	RE		0.05	2.73	2.78	5.0	
9/14/2005	Newhall	NR1	<	0.1	3.48	3.58	5.0	
9/14/2005	Newhall	NR3	<	0.1	4.25	4.35	5.0	
10/12/2005	Newhall	NR1	<	0.1	2.58	2.68	5.0	
10/12/2005	Newhall	NR3	<	0.1	3.06	3.16	5.0	
10/26/2005	LACSD	RC	<	0.03	1.67	1.7	5.0	
10/26/2005	LACSD	RD		0.07	3.19	3.26	5.0	
10/26/2005	LACSD	RE		0.09	2.97	3.06	5.0	
11/7/2005	Newhall	NR1	<	0.1	3.22	3.32	5.0	
11/7/2005	Newhall	NR3	<	0.1	3.15	3.25	5.0	
11/8/2005	Newhall	NR1	<	0.1	3.73	3.83	5.0	
11/8/2005	Newhall	NR3	<	0.1	3.56	3.66	5.0	
11/9/2005	Newhall	NR1	<	0.1	3.35	3.45	5.0	
11/9/2005	Newhall	NR3	<	0.1	3.53	3.63	5.0	
11/10/2005	Newhall	NR1	<	0.1	4.78	4.88	5.0	
11/10/2005	Newhall	NR3	<	0.1	2.91	3.01	5.0	
11/11/2005	Newhall	NR1	<	0.1	2.97	3.07	5.0	
11/11/2005	Newhall	NR3	<	0.1	2.95	3.05	5.0	
11/30/2005	LACSD	RC	<	0.03	1.89	1.92	5.0	
11/30/2005	LACSD	RD		0.03	3.46	3.49	5.0	
11/30/2005	LACSD	RE		0.06	3.3	3.36	5.0	
12/14/2005	Newhall	NR1	<	0.1	3.34	3.44	5.0	
12/14/2005	Newhall	NR3	<	0.1	3.56	3.66	5.0	
12/21/2005	LACSD	RC	<	0.03	1.94	1.97	5.0	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 3
SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
12/21/2005	LACSD	RC	<	0.03	1.91	1.94	5.0	
12/21/2005	LACSD	RD		0.06	3.46	3.52	5.0	
12/21/2005	LACSD	RE		0.08	3.54	3.62	5.0	
1/11/2006	Newhall	NR1	<	0.1	1.95	2.05	5.0	
1/11/2006	Newhall	NR3	<	0.1	2.07	2.17	5.0	
1/18/2006	LACSD	RC	<	0.03	1.9	1.93	5.0	
1/18/2006	LACSD	RD		0.04	3.34	3.38	5.0	
1/18/2006	LACSD	RD		0.04	3.34	3.38	5.0	
1/18/2006	LACSD	RE	<	0.03	0.12	0.15	5.0	
2/13/2006	Newhall	NR1	<	0.1	1.88	1.98	5.0	
2/13/2006	Newhall	NR3	<	0.1	2.17	2.27	5.0	
2/14/2006	Newhall	NR1	<	0.1	1.88	1.98	5.0	
2/14/2006	Newhall	NR3	<	0.1	2.45	2.55	5.0	
2/15/2006	LACSD	RC		0.04	2.13	2.17	5.0	
2/15/2006	LACSD	RD		0.05	3	3.05	5.0	
2/15/2006	LACSD	RE	<	0.03	0.22	0.25	5.0	
2/15/2006	LACSD	RE	<	0.03	0.22	0.25	5.0	
2/15/2006	Newhall	NR1	<	0.1	2.04	2.14	5.0	
2/15/2006	Newhall	NR3	<	0.1	2.58	2.68	5.0	
2/16/2006	Newhall	NR1	<	0.1	2.29	2.39	5.0	
2/16/2006	Newhall	NR3	<	0.1	2.86	2.96	5.0	
2/17/2006	Newhall	NR1	<	0.1	1.86	1.96	5.0	
2/17/2006	Newhall	NR3	<	0.1	2.27	2.37	5.0	
3/15/2006	LACSD	RC	<	0.03	1.92	1.95	5.0	
3/15/2006	LACSD	RD		0.03	2.56	2.59	5.0	
3/15/2006	LACSD	RE	<	0.03	0.53	0.56	5.0	
3/15/2006	Newhall	NR1		0.114	2.51	2.624	5.0	
3/15/2006	Newhall	NR3		0.105	2.91	3.015	5.0	
4/18/2006	Newhall	NR3	<	0.10	1.72	1.82	5.0	
4/19/2006	LACSD	RC	<	0.03	2.17	2.2	5.0	
4/19/2006	LACSD	RD	<	0.03	2.26	2.29	5.0	
4/19/2006	LACSD	RE	<	0.03	0.34	0.37	5.0	
4/24/2006	Newhall	NR1	<	0.1	1.73	1.83	5.0	
5/15/2006	Newhall	NR1		0.04	1.76	1.796	5.0	
5/15/2006	Newhall	NR3		0.02	1.92	1.944	5.0	
5/16/2006	Newhall	NR1		0.07	1.81	1.88	5.0	
5/16/2006	Newhall	NR3		0.05	1.92	1.97	5.0	
5/17/2006	LACSD	RC	<	0.03	2.18	2.21	5.0	
5/17/2006	LACSD	RD		0.06	3.28	3.34	5.0	
5/17/2006	LACSD	RE		0.05	2.07	2.12	5.0	
5/17/2006	Newhall	NR1		0.059	1.79	1.849	5.0	
5/17/2006	Newhall	NR3		0.05	1.94	1.993	5.0	
5/18/2006	Newhall	NR1		0.06	1.71	1.775	5.0	
5/18/2006	Newhall	NR3		0.06	1.85	1.909	5.0	
5/19/2006	Newhall	NR1		0.06	1.71	1.768	5.0	
5/19/2006	Newhall	NR3		0.05	1.83	1.881	5.0	
6/21/2006	LACSD	RC	<	0.03	2.02	2.05	5.0	
6/21/2006	LACSD	RD		0.06	2.89	2.95	5.0	
6/21/2006	LACSD	RE		0.05	2.8	2.85	5.0	
6/21/2006	Newhall	NR1		0.07	2.38	2.45	5.0	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 3

SANTA CLARA RIVER REACH 5 - NITRATE + NITRITE

Sample Date	Source	Location	Qualifier	Nitrite (mg/L)	Nitrate (mg/L)	Nitrite + Nitrate (mg/L)	Nitrite + Nitrate BPO (mg/L)	Does Sample Exceed BPO (1=Yes)
6/21/2006	Newhall	NR3		0.07	2.51	2.58	5.0	
7/18/2006	Newhall	NR1		0.11	2.04	2.15	5.0	
7/18/2006	Newhall	NR3		0.10	2.06	2.16	5.0	
7/19/2006	LACSD	RC	<	0.03	2.11	2.14	5.0	
7/19/2006	LACSD	RD		0.06	2.97	3.03	5.0	
7/19/2006	LACSD	RE		0.05	2.73	2.78	5.0	
8/21/2006	Newhall	NR1		0.03	1.26	1.29	5.0	
8/21/2006	Newhall	NR3		0.04	1.32	1.36	5.0	
8/22/2006	Newhall	NR1		0.04	1.25	1.29	5.0	
8/22/2006	Newhall	NR3		0.03	1.18	1.21	5.0	
8/23/2006	LACSD	RC	<	0.03	1.88	1.91	5.0	
8/23/2006	LACSD	RD		0.04	2.25	2.29	5.0	
8/23/2006	LACSD	RE		0.04	2.17	2.21	5.0	
8/23/2006	Newhall	NR1		0.03	1.66	1.69	5.0	
8/23/2006	Newhall	NR3		0.04	2.26	2.3	5.0	
8/24/2006	Newhall	NR1	<	0.05	1.89	1.94	5.0	
8/24/2006	Newhall	NR3	<	0.05	2.02	2.07	5.0	
8/25/2006	Newhall	NR1	<	0.05	1.89	1.94	5.0	
8/25/2006	Newhall	NR3	<	0.05	1.82	1.87	5.0	
9/13/2006	LACSD	RC	<	0.03	1.65	1.68	5.0	
9/13/2006	LACSD	RD		0.04	2.39	2.43	5.0	
9/13/2006	LACSD	RE		0.04	2.18	2.22	5.0	
9/13/2006	LACSD	RE		0.04	2.16	2.2	5.0	
9/19/2006	Newhall	NR1	<	0.01	1.93	1.94	5.0	
9/19/2006	Newhall	NR3	<	0.01	1.83	1.84	5.0	
10/18/2006	LACSD	RC	<	0.03	2.04	2.07	5.0	
10/18/2006	LACSD	RC	<	0.03	2.03	2.06	5.0	
10/18/2006	LACSD	RD		0.06	2.25	2.31	5.0	
10/18/2006	LACSD	RE		0.06	2.09	2.15	5.0	
10/18/2006	Newhall	NR1	<	0.01	1.97	1.98	5.0	
10/18/2006	Newhall	NR3	<	0.01	2.09	2.1	5.0	
11/15/2006	LACSD	RE		0.04	2.55	2.59	5.0	
11/29/2006	LACSD	RC	<	0.03	2.6	2.63	5.0	
11/29/2006	LACSD	RD		0.06	3.06	3.12	5.0	
12/20/2006	LACSD	RC	<	0.03	2.24	2.27	5.0	
12/20/2006	LACSD	RD		0.04	2.73	2.77	5.0	
12/20/2006	LACSD	RE		0.08	2.77	2.85	5.0	
2/14/2007	LACSD	RC	<	0.03	2.13	2.16	5.0	
2/14/2007	LACSD	RD		0.04	2.89	2.93	5.0	
2/14/2007	LACSD	RE		0.07	2.96	3.03	5.0	
2/28/2007	LACSD	RC		0.03	2.55	2.58	5.0	
2/28/2007	LACSD	RD	<	0.03	2.18	2.21	5.0	
2/28/2007	LACSD	RE		0.06	2.77	2.83	5.0	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

LACSD - Sanitation Districts of Los Angeles County
 Newhall - Newhall Ranch Sanitation District

**9 of 243 samples exceed the
 Basin Plan Objective (BPO)**

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 2

LISTING: Chlorpyrifos in SCR Reach 6

Listed on the 303(d) list (added in 2006)

RECOMMENDATION:

De-list-Water Quality Objectives Currently Being Achieved

REASON:

Current data show attainment of water quality standard
Data does not meet requirements of Table 3.1 for Listing
Data meet requirements of Table 4.1 for De-Listing

The California Regional Water Quality Control Board, Los Angeles (Regional Board) included chlorpyrifos for Reach 6 of the Santa Clara River during the 2006 listing cycle because their evaluation of available data indicated that the California Department of Fish and Game (CDFG) four-day Criterion Continuous Concentration (CCC) threshold of 0.05 µg/L Chlorpyrifos was exceeded in samples collected from Bouquet Canyon Creek. All of the utilized monitoring data was collected as part of a Surface Water Ambient Monitoring Program (SWAMP).

An analysis of available data finds 2 valid samples available from the SWAMP program and 33 samples collected by the Los Angeles County Department of Public Works at the Los Angeles County MS4 Mass Emission Santa Clara River Monitoring Station (S29 - San Francisquito Creek). Evaluation of these samples for comparison to the CCC results in two observed exceedances of the four-day average with a sample size of 32. For a sample size from 28 to 36, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number exceedances are equal or less than two. This dataset is attached as Appendix A, Table 4.

The EPA has been phasing out all non-agricultural uses of chlorpyrifos with the cessation of sales of all indoor and outdoor residential use products by December 31, 2004. Data since 2005 shows that there have been no exceedances of the four-day average threshold of 0.05 µg/L chlorpyrifos out of 18 samples. EPA's action should be considered implementation of a significant management practice in Reach 6 of the Santa Clara River under Section 6.1.5.3 of the Water Quality Control Policy for Developing California's Clean Water Act. Section 6.1.5.3 states "If the implementation of a management practice(s) has resulted in a change in the water body segment, only recently collected data [since the implementation of the management measure(s)] should be considered." At a minimum, this listing should be moved to the "Water Quality Limited Segments Being Addressed by Actions Other Than a TMDL" list since this residential use phase-

out of chlorpyrifos is a regulatory action (other than a TMDL) and appears to be resulting in attainment of standards.

With respect to the accurate reflection of water body segment water quality, several listings proposed for SCR Reaches 5 and 6, including listings for diazinon, chlorpyrifos and PCBs rely on sample data and exceedances not from the SCR, but from other water quality segments, such as Bouquet Canyon and Castaic Creeks. While these creeks are within the SCR watershed, sample results in these creeks are not as a scientific matter necessarily indicative of water quality status in the SCR mainstem. Whether the sample data in these creeks is indicative of water quality in SCR reaches 5 and 6 depends upon a number of confounding factors, including hydrologic conditions, flow rates and volumes, and natural water quality function within the various surface water body segments. Pursuant to EPA's Guidance for 2004 Assessment, Listing and Reporting Requirements (July 2003), data that is not representative of current water quality conditions should not be used to support listing of a water body. Similarly, the Listing Policy requires use of accurate data to support listings. In addition, federal Clean Water Act regulations provide for the evaluation of listings based on analysis of water quality status associated with water body segments. 40 CFR 130.2(j). Similarly, the Listing Policy makes it clear that "At a minimum, data shall be aggregated by the water body segments as defined in the Basin Plans," and "data must be measured at one or more sites in the water segment in order to place a water segment on the section 303(d) list." These rules make sense because they are designed to assure that the data used to support a listing are representative of, and accurately depict the status of the water body segment proposed for listing. Pursuant to these rules and consistent with appropriate technical practices, samples and exceedances collected and recorded from other water bodies, defined in the Basin Plan separately and distinctly from SCR Reaches 5 and 6, should be evaluated separately, and should not be used as the primary line of evidence supporting a listing for the SCR mainstem.

Appendix A, Table 4

SANTA CLARA RIVER REACH 6 - CHLORPYRIFOS

Sample Date	Source	Location	Qualifier	Chlorpyrifos (ug/L)	Method	PQL/RL (ug/L)	QA/QC	Fish and Game 4-Day CCC	Is Sample Usable? (1=Yes)	Qualifier	4-Day Average Concentration (ug/L)	Does 4-Day Average Exceed CCC? (1=Yes)
10/31/2001	SWAMP	SCTBQT		0.059	ELISA	0.05	Pass	0.05	1		0.059	1
10/31/2001	SWAMP	SCTBQT	<	0.05	EPA 8141A	0.05	Fail	0.05			**	
11/15/2001	SWAMP	SCTBQT		0.077	ELISA	0.05	Pass	0.05	1		0.077	1
8/5/2002	SWAMP	SCTBQT		0.068	ELISA	0.05	Fail	0.05			**	
8/5/2002	SWAMP	SCTBQT		0.053	ELISA	0.05	Fail	0.05			**	
8/20/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
8/28/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
8/28/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
9/19/2002	SWAMP	SCTBQT		0.055	ELISA	0.05	Fail	0.05			**	
10/4/2002	SWAMP	SCTBQT		0.051	ELISA	0.05	Fail	0.05			**	
10/4/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/10/2002	LACDPW	S29	<	0.05	EPA 505	0.05	Pass	0.05	1	<	0.05	
10/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/19/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
11/7/2002	SWAMP	SCTBQT		0.061	ELISA	0.05	Fail	0.05			**	
11/8/2002	LACDPW	S29	<	0.05	EPA 501	0.05	Pass	0.05	1	<	0.05	
11/18/2002	SWAMP	SCTBQT		0.067	ELISA	0.05	Fail	0.05			**	
12/3/2002	SWAMP	SCTBQT		0.061	ELISA	0.05	Fail	0.05			**	
12/16/2002	LACDPW	S29	<	0.05	EPA 502	0.05	Pass	0.05	1	<	0.05	
12/18/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
12/18/2002	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
1/13/2003	SWAMP	SCTBQT	<	0.05	EPA 8141A	0.05	Fail	0.05			**	
1/17/2003	SWAMP	SCTBQT		0.051	ELISA	0.05	Fail	0.05			**	
1/17/2003	SWAMP	SCTBQT		0.062	ELISA	0.05	Fail	0.05			**	
2/1/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/1/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/11/2003	LACDPW	S29	<	0.05	EPA 503	0.05	Pass	0.05	1	<	0.05	
2/16/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
2/16/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
3/3/2003	SWAMP	SCTBQT		0.096	ELISA	0.05	Fail	0.05			**	
3/3/2003	SWAMP	SCTBQT		0.07	ELISA	0.05	Fail	0.05			**	
3/15/2003	LACDPW	S29	<	0.05	EPA 504	0.05	Pass	0.05	1	<	0.05	
3/18/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
4/30/2003	LACDPW	S29	<	0.05	EPA 506	0.05	Pass	0.05	1	<	0.05	
5/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/2/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
5/17/2003	SWAMP	SCTBQT	<	0.05	ELISA	0.05	Fail	0.05			**	
10/28/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/31/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	*	
12/25/2003	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/1/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/13/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/17/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/26/2004	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
EPA ceased sale of all indoor and outdoor non-agricultural products containing chlorpyrifos on December 31, 2004.												
1/7/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
3/9/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/17/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
11/29/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/31/2005	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/14/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
2/17/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/25/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
10/31/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/9/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 4

SANTA CLARA RIVER REACH 6 - CHLORPYRIFOS

Sample Date	Source	Location	Qualifier	Chlorpyrifos (ug/L)	Method	PQL/RL (ug/L)	QA/QC	Fish and Game 4-Day CCC	Is Sample Usable? (1=Yes)	Qualifier	4-Day Average Concentration (ug/L)	Does 4-Day Average Exceed CCC? (1=Yes)
12/16/2006	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
1/30/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
2/19/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1		*	
2/22/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/2/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
9/21/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
11/25/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1		*	
11/29/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
12/6/2007	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	
4/9/2008	LACDPW	S29	<	0.05	EPA 507	0.05	Pass	0.05	1	<	0.05	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

* = Data averaged for 4-Day average

** = Data failed QAPP provisions

LACDPW - Los Angeles County Department of Public Works

SWAMP - Surface Water Ambient Monitoring Program

Fish and Game - California Department of Fish and Game

**2 of 32 4-day averages exceed
Criterion Continuous Concentration (CCC)**

**0 of 18 4-day averages exceed CCC
since December 31, 2004 EPA ban on sales**

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 3

LISTING: Copper in SCR Reach 6

Listed on 303(d) list (TMDL required list)

RECOMMENDATION:

Do not list – Water Quality Objectives Currently Being Achieved

REASON:

Current Data show attainment of water quality standard

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is currently proposing that a new listing for copper be made to the 303(d) list in Santa Clara River Reach 6. The fact sheet for copper in Santa Clara River Reach 6 states six of 21 samples exceeded the “CTR [California Toxics Rule] water quality standard for copper (acute) that is 13.44 ppb. The standard is hardness dependent based on a hardness value of 100.”

In the 2006 Listing cycle, the State Water Resources Control Board (State Board) issued guidance regarding the evaluation of metals data, particularly in regards to consideration of the use of wet and dry weather data, the use of concurrent or average hardness values and the appropriate use of total fraction data in the absence of dissolved fraction data.

In accordance with the State Board’s direction, using concurrently measured hardness values, the chronic water quality objectives ranged from 8.2 to 36.6 µg/L for dissolved copper. The average of all location hardness measurements collected were used when concurrent hardness was not measured.

We believe the copper listing in Reach 6 should be evaluated with total copper measurements collected and reported to the Regional Board by the Sanitation Districts of Los Angeles County (Sanitation Districts) in the Santa Clara River Reach 6 during approximately the same time period (2004 through April 2007). Although dissolved copper was not measured, use of total copper data is appropriate pursuant to the 2006 State Board guidance. Using a conservative value of 100% of the total copper equaling the dissolved fraction, and combining the Sanitation Districts’ data with the County’s MS4 data, a total of three copper exceedances of the Criterion Continuous Concentration (CCC) were observed out of sample size of 69 and two copper exceedances of the Criterion Maximum Concentration (CMC) were observed out of sample size of 71. For a sample size from 60 to 71, Table 3.1 of the State’s listing policy recommends a pollutant/water body combination be listed if the number exceedances are equal or greater than six. Therefore, the copper does not meet the listing criteria in Santa Clara

River Reach 6. A complete summary provided of the copper and hardness data along with the CTR hardness dependant objective calculations by Sanitation Districts can be found in Appendix A - Table 5A and 5B.

**Appendix A, Table 5A
Hardness Data**

Date	Location	Hardness	Source						
1/17/2005	RA	385	LACSD	12/6/2004	RB	198	10/6/2005	RB	212
2/9/2005	RA	476	LACSD	1/6/2005	RB	250	10/7/2005	RB	196
2/17/2005	RA	188	LACSD	1/17/2005	RB	294	10/14/2005	RB	220
4/13/2005	RA	385	LACSD	2/7/2005	RB	224	10/21/2005	RB	248
4/13/2005	RA	433	LACSD	2/9/2005	RB	238	10/24/2005	RB	243
4/14/2005	RA	344	LACSD	2/9/2005	RB	243	10/26/2005	RB	252
7/8/2005	RA	197	LACSD	2/10/2005	RB	226	10/26/2005	RB	257
1/18/2006	RA	249	LACSD	2/10/2005	RB	325	1/9/2006	RB	245
1/18/2006	RA	260	LACSD	2/10/2005	RB	281	1/11/2006	RB	229
1/19/2006	RA	326	LACSD	2/10/2005	RB	248	1/13/2006	RB	210
2/21/2006	RA	83	LACSD	2/17/2005	RB	245	1/16/2006	RB	213
2/23/2006	RA	220	LACSD	2/17/2005	RB	260	1/18/2006	RB	222
4/17/2006	RA	295	LACSD	2/17/2005	RB	289	4/17/2006	RB	233
4/19/2006	RA	282	LACSD	2/17/2005	RB	319	4/19/2006	RB	248
4/20/2006	RA	282	LACSD	2/28/2005	RB	249	4/20/2006	RB	233
4/21/2006	RA	274	LACSD	3/2/2005	RB	261	4/21/2006	RB	238
7/5/2006	RA	279	LACSD	3/7/2005	RB	235	7/5/2006	RB	172.3
7/7/2006	RA	351	LACSD	3/10/2005	RB	238	7/7/2006	RB	230
7/10/2006	RA	325	LACSD	3/10/2005	RB	315	7/10/2006	RB	210
7/19/2006	RA	182	LACSD	3/10/2005	RB	283	7/17/2006	RB	192
7/19/2006	RA	319	LACSD	3/10/2005	RB	246	7/19/2006	RB	195
				3/11/2005	RB	232	7/21/2006	RB	180
Average		292		3/21/2005	RB	220	7/24/2006	RB	192
				3/31/2005	RB	233	7/26/2006	RB	194
				4/1/2005	RB	236	7/28/2006	RB	192
Date	Location	Hardness	Source	4/5/2005	RB	229	10/16/2006	RB	196
1/7/2004	RB	205		4/13/2005	RB	237	10/18/2006	RB	211
1/9/2004	RB	190		4/13/2005	RB	276	10/18/2006	RB	209
1/12/2004	RB	197		4/14/2005	RB	316	10/20/2006	RB	202
1/14/2004	RB	520		4/14/2005	RB	300	1/3/2007	RB	203
1/19/2004	RB	150		4/14/2005	RB	268	1/4/2007	RB	192
1/23/2004	RB	186		5/5/2005	RB	228	1/7/2007	RB	246
1/26/2004	RB	169		5/5/2005	RB	243	1/8/2007	RB	222
1/28/2004	RB	188		5/12/2005	RB	235	2/14/2007	RB	232
1/30/2004	RB	180		5/12/2005	RB	238	4/2/2007	RB	202
4/12/2004	RB	153		5/18/2005	RB	251	4/4/2007	RB	209
4/14/2004	RB	160		5/19/2005	RB	238	4/6/2007	RB	199
4/14/2004	RB	175		7/6/2005	RB	199	4/11/2007	RB	235
4/16/2004	RB	157		7/11/2005	RB	203			
7/1/2004	RB	177		7/20/2005	RB	198	Average		226
7/6/2004	RB	176		7/20/2005	RB	204			
7/14/2004	RB	181		7/21/2005	RB	211			
10/13/2004	RB	193		7/21/2005	RB	260			
10/13/2004	RB	194		7/21/2005	RB	325			
10/14/2004	RB	215		7/22/2005	RB	201			
10/14/2004	RB	285		7/25/2005	RB	191			
11/1/2004	RB	211		7/27/2005	RB	239			
11/3/2004	RB	178		7/29/2005	RB	196			
11/4/2004	RB	201		10/3/2005	RB	204			
11/5/2004	RB	183		10/5/2005	RB	204			
12/1/2004	RB	175		10/6/2005	RB	314			
12/2/2004	RB	205		10/6/2005	RB	275			
12/3/2004	RB	193							

Source: LA County Sanitation Districts

Appendix A, Table 5B
SANTA CLARA RIVER REACH 6 - COPPER

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Is Sample Usable? (1=Yes)	Conservative Dissolved Copper Concentration	4-Day Average Concentration	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
10/28/2003	LACDPW	S29		13.50	3.55	5.00	EPA200.8	1	3.55	*	400	49.6	29.3		
10/31/2003	LACDPW	S29		30.40	10.60	5.00	EPA200.8	1	10.60	7.08	200	25.8	16.2		
12/25/2003	LACDPW	S29		53.30	4.88	5.00	EPA200.8	1	4.88	4.88	170	22.2	14.1		
1/1/2004	LACDPW	S29		10.20	7.36	5.00	EPA200.8	1	7.36	7.36	140	18.5	11.9		
1/13/2004	LACDPW	S29		5.96	3.54	5.00	EPA200.8	1	3.54	3.54	450	55.4	32.4		
1/14/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	520	63.5	36.6		
2/11/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
3/10/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
4/14/2004	LACSD	RB	E	4.00	NA	8.00	EPA200.8	1	8.00	8.00	175	22.8	14.4		
5/12/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
6/9/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
7/14/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	181	23.5	14.9		
8/11/2004	LACSD	RB	<	8.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
9/15/2004	LACSD	RB	E	3.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
10/13/2004	LACSD	RB	E	3.00	NA	8.00	EPA200.8	1	8.00	8.00	193	25.0	15.7		
10/17/2004	LACDPW	S29		15.70	5.90	5.00	EPA200.8	1	5.90	5.90	428	52.9	31.0		
10/26/2004	LACDPW	S29		28.00	22.60	5.00	EPA200.8	1	22.60	22.60	90	12.2	8.2	1	1
11/10/2004	LACSD	RB	E	6.00	NA	8.00	EPA200.8	1	8.00	8.00	226***	28.2	17.6		
12/16/2004	LACSD	RB		5.50	NA	0.50	EPA200.8	1	5.50	5.50	226***	28.2	17.6		
1/7/2005	LACDPW	S29		19.50	17.20	5.00	EPA200.8	1	17.20	17.20	110	14.7	9.7	1	1
2/2/2005	LACSD	RB		2.70	NA	0.50	EPA200.8	1	2.70	2.70	226***	28.2	17.6		
2/9/2005	LACSD	RB		2.90	NA	0.50	EPA200.8	1	2.90	2.90	243	31.0	19.1		
3/2/2005	LACSD	RA		28.00	NA	0.50	EPA200.8	1	28.00	28.00	292**	35.7	21.7		1
3/2/2005	LACSD	RB		1.90	NA	0.50	EPA200.8	1	1.90	1.90	261	33.2	20.3		
3/9/2005	LACDPW	S29		18.50	3.83	5.00	EPA200.8	1	3.83	3.83	460	56.6	33.0		
4/13/2005	LACSD	RA		29.00	NA	0.50	EPA200.8	1	29.00	29.00	433	53.5	31.3		
4/13/2005	LACSD	RB		3.60	NA	0.50	EPA200.8	1	3.60	3.60	276	35.0	21.3		
5/18/2005	LACSD	RB		1.80	NA	0.50	EPA200.8	1	1.80	1.80	251	32.0	19.7		
6/15/2005	LACSD	RB		3.20	NA	0.50	EPA200.8	1	3.20	3.20	220	28.2	17.6		
7/20/2005	LACSD	RB		6.40	NA	0.50	EPA200.8	1	6.40	6.40	204	26.3	16.5		
8/17/2005	LACSD	RB		3.70	NA	0.50	EPA200.8	1	3.70	3.70	226***	28.2	17.6		
9/14/2005	LACSD	RB		7.00	NA	0.50	EPA200.8	1	7.00	7.00	220	28.2	17.6		
10/17/2005	LACDPW	S29		37.30	8.17	5.00	EPA200.8	1	8.17	8.17	128	17.0	11.1		
10/26/2005	LACSD	RB		7.90	NA	0.50	EPA200.8	1	7.90	7.90	257	32.7	20.1		
11/29/2005	LACDPW	S29		7.40	2.36	5.00	EPA200.8	1	2.36	2.36	408	50.6	29.8		
11/30/2005	LACSD	RB		4.20	NA	0.50	EPA200.8	1	4.20	4.20	226***	28.2	17.6		
12/21/2005	LACSD	RB		4.20	NA	0.50	EPA200.8	1	4.20	4.20	226***	28.2	17.6		
12/31/2005	LACDPW	S29		10.80	4.59	5.00	EPA200.8	1	4.59	4.59	90	12.2	8.2		
1/14/2006	LACDPW	S29		10.00	6.04	5.00	EPA200.8	1	6.04	6.04	245	31.3	19.3		
1/18/2006	LACSD	RA		0.80	NA	0.50	EPA200.8	1	0.80	0.80	249	31.7	19.5		
1/18/2006	LACSD	RB		4.60	NA	0.50	EPA200.8	1	4.60	4.60	222	28.5	17.7		

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

**Appendix A, Table 5B
County Sanitation District Supplied Data Table**

**APPENDIX C - TABLE C1
SANTA CLARA RIVER REACH 6 - COPPER**

Sample Date	Source	Location	Qualifier	Total Copper (ug/L)	Dissolved Copper (ug/L)	PQL/RL (ug/L)	Method	Is Sample Usable? (1=Yes)	Conservative Dissolved Copper Concentration	4-Day Average Concentration	Hardness	Dissolved Copper CMC (ug/L)	Dissolved Copper CCC (ug/L)	Does Sample Exceed CMC (1=Yes)	Does Sample Exceed CCC (1=Yes)
2/15/2006	LACSD	RA		1.63	NA	0.50	EPA200.8	1	1.63	1.63	292**	35.7	21.7		
2/15/2006	LACSD	RB		7.21	NA	0.50	EPA200.8	1	7.21	7.21	226***	28.2	17.6		
2/17/2006	LACDPW	S29		7.33	3.32	5.00	EPA200.8	1	3.32	3.32	340	42.6	25.5		
3/15/2006	LACSD	RA		1.42	NA	0.50	EPA200.8	1	1.42	1.42	292**	35.7	21.7		
3/15/2006	LACSD	RB		3.75	NA	0.50	EPA200.8	1	3.75	3.75	226***	28.2	17.6		
4/19/2006	LACSD	RA		15.90	NA	0.50	EPA200.8	1	15.90	15.90	282	35.7	21.7		
4/19/2006	LACSD	RB		3.64	NA	0.50	EPA200.8	1	3.64	3.64	248	31.6	19.5		
4/25/2006	LACDPW	S29		33.50	2.52	5.00	EPA200.8	1	2.52	2.52	360	44.9	26.8		
5/17/2006	LACSD	RA		1.04	NA	0.50	EPA200.8	1	1.04	1.04	292**	35.7	21.7		
5/17/2006	LACSD	RB		4.67	NA	0.50	EPA200.8	1	4.67	4.67	226***	28.2	17.6		
6/21/2006	LACSD	RB		2.71	NA	0.50	EPA200.8	1	2.71	2.71	226***	28.2	17.6		
7/19/2006	LACSD	RA		0.80	NA	0.50	EPA200.8	1	0.80	0.80	319	40.1	24.1		
7/19/2006	LACSD	RB		2.10	NA	0.50	EPA200.8	1	2.10	2.10	195	25.2	15.8		
8/23/2006	LACSD	RA		1.10	NA	0.50	EPA200.8	1	1.10	1.10	292**	35.7	21.7		
8/23/2006	LACSD	RB		3.64	NA	0.50	EPA200.8	1	3.64	3.64	226***	28.2	17.6		
9/13/2006	LACSD	RB		3.60	NA	0.50	EPA200.8	1	3.60	3.60	226***	28.2	17.6		
10/18/2006	LACSD	RB		3.73	NA	0.50	EPA200.8	1	3.73	3.73	373	46.5	27.6		
10/31/2006	LACDPW	S29		22.40	2.19	5.00	EPA200.8	1	2.19	2.19	430	53.1	31.1		
11/15/2006	LACSD	RB		4.30	NA	0.50	EPA200.8	1	4.30	4.30	226***	28.2	17.6		
12/9/2006	LACDPW	S29		50.30	5.08	5.00	EPA200.8	1	5.08	5.08	250	31.9	19.6		
12/16/2006	LACDPW	S29		28.30	4.99	5.00	EPA200.8	1	4.99	4.99	370	46.1	27.4		
12/20/2006	LACSD	RB		5.92	NA	0.50	EPA200.8	1	5.92	5.92	226***	28.2	17.6		
1/30/2007	LACDPW	S29		38.20	6.10	5.00	EPA200.8	1	6.10	6.10	310	39.0	23.5		
2/14/2007	LACSD	RB		8.99	NA	0.50	EPA200.8	1	8.99	8.99	232	29.7	18.4		
2/19/2007	LACDPW	S29		31.90	4.68	5.00	EPA200.8	1	4.68	*	210	27.0	16.9		
2/22/2007	LACDPW	S29		50.50	5.13	5.00	EPA200.8	1	5.13	4.91	160	20.9	13.4		
2/28/2007	LACSD	RB		8.03	NA	0.50	EPA200.8	1	8.03	8.03	226***	28.2	17.6		
3/14/2007	LACSD	RB		6.26	NA	0.50	EPA200.8	1	6.26	6.26	226***	28.2	17.6		
4/2/2007	LACDPW	S29		22.10	2.88	5.00	EPA200.8	1	2.88	2.88	440	54.3	31.8		
4/11/2007	LACSD	RB		6.43	NA	0.50	EPA200.8	1	6.43	6.43	235	30.1	18.6		

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

LACSD - Sanitation Districts of Los Angeles County

LACDPW - Los Angeles County Department of Public Works

* - Data is used in calculation of a 4-day average

** - Average RA hardness used when concurrent hardness was unavailable

*** - Average RB hardness used when concurrent hardness was unavailable

**3 of 69 4-day averages exceed
Criterion Continuous Concentration (CCC)**

**2 of 71 samples exceed
Criterion Maximum Concentration (CMC)**

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 4

LISTING: Diazinon in SCR Reach 6

Listed on the 303(d) list (Being Addressed by an EPA Approved TMDL)

RECOMMENDATION:

De-list – Water Quality Objectives Currently Being Achieved

REASON: Current data show attainment of water quality standard
Recent data does not meet the requirements of Table 3.1 for Listing
Diazinon is being addressed by actions other than TMDL (banned)

The California Regional Water Quality Control Board, Los Angeles (Regional Board) included diazinon for Reach 6 of the Santa Clara River during the 2006 listing cycle because their evaluation of available data indicated that the California Department of Fish and Game (CDFG) four-day Criterion Continuous Concentration (CCC) threshold of 0.10 µg/L diazinon¹ was exceeded in samples collected from Bouquet Canyon Creek. All of the utilized monitoring data was collected as part of a Surface Water Ambient Monitoring Program (SWAMP).

An analysis of available data finds 2 valid samples available from the SWAMP program, 33 samples collected by the Los Angeles County Department of Public Works, and 25 samples collected by the Sanitation Districts of Los Angeles County (Sanitation Districts). This dataset is attached as Appendix A, Table 6.

The EPA has been phasing out all non-agricultural uses of diazinon with the cessation of sales of all indoor and outdoor residential use products by December 31, 2004. Recent (i.e., post-diazinon ban) water quality data from Santa Clara River Reach 6 (West Pier Hwy 99 to Bouquet Canyon Road Bridge) show that the Basin Plan's water quality objective for diazinon is met. Diazinon has a short half-life in soil, so that concentrations have declined rapidly following the ban. EPA's action should be considered implementation of a significant management practice in Reach 6 of the Santa Clara River under Section 6.1.5.3 of the Water Quality Control Policy for Developing California's Clean Water Act. In addition to the phase out of diazinon discussed above, the conditional irrigated lands waiver adopted by the LARWQCB in 2005 (Order No. R4-2005-0080) is another source control that should reduced the loading of the pollutant in the watershed. Section 6.1.5.3 states "If the implementation of a management practice(s) has resulted in a change in the water body segment, only recently collected data [since the implementation of the management measure(s)] should be considered". Accordingly,

¹ At the time of original listing, the CDFG CCC for diazinon was 0.08 and was has since been modified to 0.10 µg/L diazinon.

only data collected since January 1, 2005 should be considered for listing reevaluation. If data generated after the residential use ban (January 1, 2005) to April 2007 is considered, only two four-day average diazinon results exceeded the CCC with a sample size of 29. For a sample size of 28-36, Table 4.1 of the State's listing policy recommends delisting a previously listed pollutant/water body combination if the number of exceedances is equal to or less than two. In addition, the most recently available data shows no exceedances were found in nine samples collected between April 2007 and July 2008. Therefore, diazinon in Reach 6 of the Santa Clara River should be removed from the 303(d) list.

In addition, prior to delisting this listing should be moved to the "Water Quality Limited Segments Being Addressed by Actions Other Than a TMDL" category since the EPA residential use phase-out of diazinon is a regulatory action (other than a TMDL) and has been successful in attaining compliance with standards.

With respect to the accurate reflection of water body segment water quality, several listings proposed for SCR Reaches 5 and 6, including listings for diazinon, chlorpyrifos and PCBs rely on sample data and exceedances not from the SCR, but from other water quality segments, such as Bouquet Canyon and Castaic Creeks. While these creeks are within the SCR watershed, sample results in these creeks are not as a scientific matter necessarily indicative of water quality status in the SCR mainstem. Whether the sample data in these creeks is indicative of water quality in SCR reaches 5 and 6 depends upon a number of confounding factors, including hydrologic conditions, flow rates and volumes, and natural water quality function within the various surface water body segments. Pursuant to EPA's Guidance for 2004 Assessment, Listing and Reporting Requirements (July 2003), data that is not representative of current water quality conditions should not be used to support listing of a water body. Similarly, the Listing Policy requires use of accurate data to support listings. In addition, federal Clean Water Act regulations provide for the evaluation of listings based on analysis of water quality status associated with water body segments. 40 CFR 130.2(j). Similarly, the Listing Policy makes it clear that "At a minimum, data shall be aggregated by the water body segments as defined in the Basin Plans," and "data must be measured at one or more sites in the water segment in order to place a water segment on the section 303(d) list." These rules make sense because they are designed to assure that the data used to support a listing are representative of, and accurately depict the status of the water body segment proposed for listing. Pursuant to these rules and consistent with appropriate technical practices, samples and exceedances collected and recorded from other water bodies, defined in the Basin Plan separately and distinctly from SCR Reaches 5 and 6, should be evaluated separately, and should not be used as the primary line of evidence supporting a listing for a the SCR mainstem.

Appendix A, Table 6

SANTA CLARA RIVER REACH 6 - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	QA/QC	CCC (ug/L)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	Exceeds CCC (1 = Yes)
10/31/2001	SWAMP	403STCBQT		2	ELISA	0.03	Pass	0.1	1		2	1
10/31/2001	SWAMP	403STCBQT		2.25	EPA 8141A	0.02	Fail	0.1			**	
11/15/2001	SWAMP	403STCBQT		1.69	ELISA	0.03	Pass	0.1	1		1.69	1
8/5/2002	SWAMP	403STCBQT		4.29	ELISA	0.03	Fail	0.1			**	
8/5/2002	SWAMP	403STCBQT		4.14	ELISA	0.03	Fail	0.1			**	
8/20/2002	SWAMP	403STCBQT		6.7	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT104		0.858	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT105		0.435	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT106		4.07	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT106		3.98	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403BQT109		0.862	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403STCBQT		5.74	ELISA	0.03	Fail	0.1			**	
8/28/2002	SWAMP	403STCBQT		5.75	ELISA	0.03	Fail	0.1			**	
9/4/2002	SWAMP	403STCBQT		6.05	ELISA	0.03	Fail	0.1			**	
9/4/2002	SWAMP	403STCBQT		5.57	ELISA	0.03	Fail	0.1			**	
9/19/2002	SWAMP	403STCBQT		1.29	ELISA	0.03	Fail	0.1			**	
9/19/2002	SWAMP	403STCBQT		1.23	ELISA	0.03	Fail	0.1			**	
10/4/2002	SWAMP	403STCBQT		1.52	ELISA	0.03	Fail	0.1			**	
10/10/2002	LADPW	S29	<	0.01	EPA505	0.01	Pass	0.1	1	<	0.01	
10/19/2002	SWAMP	403STCBQT		2.67	ELISA	0.03	Fail	0.1			**	
10/19/2002	SWAMP	403STCBQT		2.55	ELISA	0.03	Fail	0.1			**	
11/7/2002	SWAMP	403STCBQT		0.813	ELISA	0.03	Fail	0.1			**	
11/8/2002	LADPW	S29		0.43	EPA501	0.01	Pass	0.1	1		0.43	1
11/18/2002	SWAMP	403STCBQT		1.07	ELISA	0.03	Fail	0.1			**	
12/3/2002	SWAMP	403STCBQT		0.479	ELISA	0.03	Fail	0.1			**	
12/16/2002	LADPW	S29	<	0.01	EPA502	0.01	Pass	0.1	1	<	0.01	
12/18/2002	SWAMP	403STCBQT		1.67	ELISA	0.03	Fail	0.1			**	
12/18/2002	SWAMP	403STCBQT		1.57	ELISA	0.03	Fail	0.1			**	
1/2/2003	SWAMP	403STCBQT		0.499	ELISA	0.03	Fail	0.1			**	
1/2/2003	SWAMP	403STCBQT		0.382	ELISA	0.03	Fail	0.1			**	
1/13/2003	SWAMP	403STCBQT		0.4	EPA 8141A	0.02	Fail	0.1			**	
1/17/2003	SWAMP	403STCBQT		0.321	ELISA	0.03	Fail	0.1			**	
1/17/2003	SWAMP	403STCBQT		0.277	ELISA	0.03	Fail	0.1			**	
2/1/2003	SWAMP	403STCBQT		0.805	ELISA	0.03	Fail	0.1			**	
2/1/2003	SWAMP	403STCBQT		0.718	ELISA	0.03	Fail	0.1			**	
2/11/2003	LADPW	S29		0.265	EPA503	0.01	Pass	0.1	1		0.265	1
2/16/2003	SWAMP	403STCBQT		0.623	ELISA	0.03	Fail	0.1			**	
2/16/2003	SWAMP	403STCBQT		0.556	ELISA	0.03	Fail	0.1			**	
3/3/2003	SWAMP	403STCBQT		5.52	ELISA	0.03	Fail	0.1			**	
3/3/2003	SWAMP	403STCBQT		4.97	ELISA	0.03	Fail	0.1			**	
3/15/2003	LADPW	S29		0.05	EPA504	0.01	Pass	0.1	1		0.05	
3/18/2003	SWAMP	403STCBQT		0.054	ELISA	0.03	Fail	0.1			**	
4/2/2003	SWAMP	403STCBQT		0.979	ELISA	0.03	Fail	0.1			**	
4/2/2003	SWAMP	403STCBQT		0.947	ELISA	0.03	Fail	0.1			**	
4/17/2003	SWAMP	403STCBQT		0.315	ELISA	0.03	Fail	0.1			**	
4/17/2003	SWAMP	403STCBQT		0.35	ELISA	0.03	Fail	0.1			**	
4/30/2003	LADPW	S29		0.023	EPA506	0.01	Pass	0.1	1		0.023	
5/2/2003	SWAMP	403STCBQT		0.512	ELISA	0.03	Fail	0.1			**	
5/2/2003	SWAMP	403STCBQT		0.499	ELISA	0.03	Fail	0.1			**	
5/17/2003	SWAMP	403STCBQT		1.32	ELISA	0.03	Fail	0.1			**	
5/17/2003	SWAMP	403STCBQT		1.33	ELISA	0.03	Fail	0.1			**	
10/28/2003	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1		*	
10/31/2003	LADPW	S29		0.082	EPA507	0.01	Pass	0.1	1	<	0.05	
12/25/2003	LADPW	S29		0.021	EPA507	0.01	Pass	0.1	1		0.021	
1/1/2004	LADPW	S29		0.028	EPA507	0.01	Pass	0.1	1		0.028	
1/7/2004	LACSD	RB		0.39	SW8141	0.05	Pass	0.1	1		0.39	1
1/13/2004	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/14/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/17/2004	LADPW	S29		0.41	EPA507	0.01	Pass	0.1	1		0.41	1
10/26/2004	LADPW	S29		0.03	EPA507	0.01	Pass	0.1	1		0.03	
11/1/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

Appendix A, Table 6

SANTA CLARA RIVER REACH 6 - DIAZINON

Date	Source	Location	Qualifier	Diazinon (ug/L)	Method	PQL/RL (ug/L)	QA/QC	CCC (ug/L)	Is Sample Usable? (1=Yes)	Qualifier	4-day Average (ug/L)	Exceeds CCC (1 = Yes)
12/22/2004	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
EPA ceased sale of all indoor and outdoor non-agricultural products containing diazinon on December 31, 2004.												
1/7/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
1/17/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
2/7/2005	LACSD	RB		0.51	SW8141	0.05	Pass	0.1	1		0.51	1
2/9/2005	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
3/9/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/13/2005	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/13/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
7/6/2005	LACSD	RB	<	0.1	SW8141	0.1	Pass	0.1	1	<	0.1	
10/3/2005	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/17/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
11/29/2005	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/31/2005	LADPW	S29		0.01	EPA507	0.01	Pass	0.1	1		0.01	
1/9/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
1/14/2006	LADPW	S29		0.11	EPA507	0.01	Pass	0.1	1		0.11	1
2/17/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
4/17/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/17/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/20/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1		*	
4/25/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
7/5/2006	LACSD	RA	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
7/5/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/16/2006	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
10/31/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/9/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
12/16/2006	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
1/3/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
1/30/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
2/19/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
2/22/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1		*	
4/2/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/2/2007	LADPW	S29	<	0.01	EPA507	0.01	Pass	0.1	1	<	0.01	
7/16/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
9/21/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
10/15/2007	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
11/25/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1		*	
11/29/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
12/6/2007	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
1/9/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/7/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	
4/9/2008	LADPW	S29	<	0.05	EPA 507	0.01	Pass	0.1	1	<	0.05	
7/14/2008	LACSD	RB	<	0.05	SW8141	0.05	Pass	0.1	1	<	0.05	

Source: LA County Sanitation Districts, LA County Department of Public Works, Newhall Land

* = Data averaged for 4-Day average

** = Data failed QAPP provisions

LADPW - Los Angeles Department of Public Works

SWAMP - Surface Water Ambient Monitoring Program

LACSD - Sanitation Districts of Los Angeles County

**2 of 29 4-day averages from January 1, 2005 to April 2, 2007 exceed
Criterion Continuous Concentration (CCC)**

**2 of 38 4-day averages from January 1, 2005 to July 14, 2008 exceed
Criterion Continuous Concentration (CCC)**

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 5

LISTING: DDT in SCR Reach 5

Listed on the 303(d) list (TMDL required list)

RECOMMENDATION:

Do-not list - Does not meet listing requirements

REASON:

Current data show attainment of water quality standard
Data does not meet requirements of Table 3.1 for Listing

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is proposing a new listing for DDT in Reach 5 of the Santa Clara River because their evaluation of available data indicated that the California Toxic Rule (CTR) criteria to protect human health with consumption of water and aquatic organisms threshold of 0.00059 µg/L DDT was exceeded in 2 of 3 samples collected as part of the Surface Water Ambient Monitoring Program (SWAMP).

The proposed DDT listing for SCR Reach 5 rely on sample data and exceedances not from the SCR, but from other water quality segments, particularly, Castaic Creek. While Castaic creek is within the SCR watershed, sample results are not, as a scientific matter, necessarily indicative of water quality status in the SCR mainstem. Although Section 303(d) does not contain a specific scientific standard to be applied to listing determinations, the Supplemental Report of the 2001 Budget published by the California Legislature, which provided one basis for the development of the Listing Policy by the SWRCB, required that the SWRCB establish criteria to “ensure that data and information used for identification of impaired water bodies are accurate and verifiable.” Section 6.1.4 of the Listing Policy states that “the quality of the data used in development of the section 303(d) list shall be of sufficient high quality to make determinations of water quality standards attainment.” Further, EPA regulations, 40 C.F.R. 131.11(a), require that water quality criteria must be based on “sound scientific rationale.” The proposed listing of DDT does not appear to be based on accurate data for the reasons discussed below.

Whether the sample data in the creek is indicative of water quality in SCR reach 5 depends upon a number of confounding factors, including hydrologic conditions, flow rates and volumes, and natural water quality function within the various surface water body segments. Pursuant to EPA’s Guidance for 2004 Assessment, Listing and Reporting

Requirements (July 2003), data that is not representative of current water quality conditions should not be used to support listing of a water body. Similarly, the Listing Policy requires use of accurate data to support listings. In addition, federal Clean Water Act regulations provide for the evaluation of listings based on analysis of water quality status associated with water body segments (see 40 CFR 130.2(j)). Similarly, the Listing Policy makes it clear that "At a minimum, data shall be aggregated by the water body segments as defined in the Basin Plans," and "data must be measured at one or more sites in the water segment in order to place a water segment on the section 303(d) list." These rules make sense because they are designed to assure that the data used to support a listing are representative of, and accurately depict the status of the water body segment proposed for listing. Pursuant to these rules and consistent with appropriate technical practices, samples and exceedances collected and recorded from other water bodies, defined in the Basin Plan separately and distinctly from SCR Reach 5 should be evaluated separately, and should not be used as the primary line of evidence supporting a listing for a the SCR mainstem.

Also of note, the SWAMP samples were taken only 14 days apart during a single season (wet season) in 2001. This does not meet the recommended criteria for temporal representation in the Listing Policy, and therefore should not be used as the sole basis for this new listing. Section 6.1.5.3 of the Listing Policy states, "In general, samples should be available from two or more seasons or from two or more events when effects or water quality exceedances would be expected to be clearly manifested." The SWAMP sample collected from the Castaic Creek monitoring location on November 13, 2001 is from a separate Basin Plan defined reach, and is not representative of conditions and does not meet Listing Policy guidelines for spatial representativeness. The SWAMP database for this sample states in the comments field, "slow trickle, not measurable flow, small pools of water." The proposed DDT listing relies on this Castaic Creek SWAMP monitoring station sample, which was collected during non-measurable flows that are not representative of typical or long-term conditions within this water body. The SWAMP sample collected from Castaic Creek should not be included as Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated beneficial uses that are independent of Santa Clara River Reach 5. Therefore the Castaic Creek sample does not meet the requirements of Section 6.1.5 .2 of the State's 303(d) Listing Policy and is not representative of the water body segment of the Santa Clara River Reach 5. DDT data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in retaining a listing for Santa Clara River Reach 5.

Only the Santa Clara River Reach 5 SWAMP data collected at the Newhall Ranch Blue Cut monitoring station should be used to assess impairments. Therefore only 1 of 1 samples exceeded the CCC, which does not meet the Listing Policy requirements of Table 3.1 for two or greater exceedances for any new listing. No new listing is warranted for DDT in Santa Clara River Reach 5.

COMMENTS ON SPECIFIC LISTINGS
FACT SHEET NO. 6

LISTING: Polychlorinated Biphenyls (PCBs) in SCR Reach 5

Listed on the 303(d) list (TMDL required list)

RECOMMENDATION:

Do-not list - Does not meet listing requirements

REASON:

Data does not meet requirements of Table 3.1 for Listing

The proposed PCB listing for SCR Reach 5 rely on sample data and exceedances not from the SCR, but from other water quality segments, such as Bouquet Canyon and Castaic Creeks. While these creeks are within the SCR watershed, sample results in these creeks are not, as a scientific matter, necessarily indicative of water quality status in the SCR mainstem. Although Section 303(d) does not contain a specific scientific standard to be applied to listing determinations, the Supplemental Report of the 2001 Budget published by the California Legislature, which provided one basis for the development of the Listing Policy by the SWRCB, required that the SWRCB establish criteria to “ensure that data and information used for identification of impaired water bodies are accurate and verifiable.” Section 6.1.4 of the Listing Policy states that “the quality of the data used in development of the section 303(d) list shall be of sufficient high quality to make determinations of water quality standards attainment.” Further, EPA regulations, 40 C.F.R. 131.11(a), require that water quality criteria must be based on “sound scientific rationale.” The proposed listing of PCBs does not appear to be based on accurate data for the reasons discussed below.

Whether the sample data in these creeks is indicative of water quality in SCR reach 5 depends upon a number of confounding factors, including hydrologic conditions, flow rates and volumes, and natural water quality function within the various surface water body segments. Pursuant to EPA’s Guidance for 2004 Assessment, Listing and Reporting Requirements (July 2003), data that is not representative of current water quality conditions should not be used to support listing of a water body. Similarly, the Listing Policy requires use of accurate data to support listings. In addition, federal Clean Water Act regulations provide for the evaluation of listings based on analysis of water quality status associated with water body segments (see 40 CFR 130.2(j)). Similarly, the Listing Policy makes it clear that “At a minimum, data shall be aggregated by the water body segments as defined in the Basin Plans,” and “data must be measured at one or more sites in the water segment in order to place a water segment on the section 303(d) list.” These

rules make sense because they are designed to assure that the data used to support a listing are representative of, and accurately depict the status of the water body segment proposed for listing. Pursuant to these rules and consistent with appropriate technical practices, samples and exceedances collected and recorded from other water bodies, defined in the Basin Plan separately and distinctly from SCR Reach 5 should be evaluated separately, and should not be used as the primary line of evidence supporting a listing for a the SCR mainstem.

Furthermore, as discussed above, The SWAMP sample collected from the Castaic Creek monitoring location on November 13, 2001 is from a separate Basin Plan defined reach, is not representative of conditions and does not meet Listing Policy guidelines for spatial representativeness. The SWAMP database for this sample states in the comments field, "slow trickle, not measurable flow, small pools of water." The proposed PCBs listing relies on this Castaic Creek SWAMP monitoring station sample, which was collected during non-measurable flows that are not representative of typical or long-term conditions within this water body. The SWAMP sample collected from Castaic Creek should not be included as Table 2-1 of the Basin Plan identifies Castaic Creek as a separate water body with designated beneficial uses that are independent of Santa Clara River Reach 5. Therefore the Castaic Creek sample does not meet the requirements of Section 6.1.5 .2 of the State's 303(d) Listing Policy and is not representative of the water body segment of the Santa Clara River Reach 5. PCB data for Castaic Creek should be evaluated separately and should not be included in the primary data set considered in retaining a listing for Santa Clara River Reach 5.

Also of note, the SWAMP samples were taken only 14 days apart during a single season (wet season) in 2001. This does not meet the recommended criteria for temporal representation in the Listing Policy, and therefore should not be used as the sole basis for this new listing. Section 6.1.5.3 of the Listing Policy states, "In general, samples should be available from two or more seasons or from two or more events when effects or water quality exceedances would be expected to be clearly manifested."

Overall, we do not believe that sufficient information is available at this time to warrant placing Santa Clara River Reach 5 on the 303(d) list for PCBs. The information available does not meet the minimum number of exceedances required for listing per Table 3.1 of the State's 303(d) Listing Policy. Only the Santa Clara River Reach 5 SWAMP data collected at the Newhall Ranch Blue Cut monitoring station should be used to assess impairments. Therefore only 1 of 2 samples exceeded the CCC, which does not meet the Listing Policy requirements of Table 3.1 for two or greater exceedances for any new listing. No new listing is warranted for PCBs in Santa Clara River Reach 5.

A similar proposed listing of PCB for Santa Clara River Reach 6 was removed after further review by the State Water Resources Control Board (State Board). In September 2006, the State Board considered a listing for Santa Clara River Reach 5 based on this SWAMP data and determined no listing was justified. The State Board recommendation

on this fact sheet is: "After review of the available data and information, SWRCB staff concludes that the water body pollutant combination should not be placed on the section 303(d) list because applicable water quality standards are not exceeded and a pollutant contributes to or causes the problem."