ANNUAL MONITORING REPORT-
YEAR ONE UNDER ORDER # R4-2010-0186
(MAY 15, 2011 THROUGH May 14, 2012)

NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY
IRRIGATED LANDS GROUP

June 29, 2012

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ABC	Aquatic Bioassay and Consulting Laboratories
ALB	Aquatic Life Benchmark
AMR	Annual Monitoring Report
BMP	Best Management Practice
COC	Chain of Custody
CWIL	Conditional Waiver of Waste Discharge Requirements for Discharges from Irrigated Lands (Order #R4-2010-0186)
EPA	United States Environmental Protection Agency
LAILG	Los Angeles Irrigated Lands Group
LARWQCB	Los Angeles Regional Water Quality Control Board
MDL	Method Detection Limit
MRP	Monitoring and Reporting Plan
NGA	Nursery Growers Association
OC	Organochlorinated Pesticides
OP	Organophosphate Pesticides
PW	PW Environmental
PP	Pyrethroid Pesticides
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
RPD	Relative Percent Difference
TDS	Total Dissolved Solids
TIE	Toxicity Identification Evaluation
TUc	Toxicity concentration in toxicity units
WMA	Watershed Management Area
WQMP	Water Quality Management Plan

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1.0 INTRODUCTION

The NGA is a non-profit association chartered in the late 1950s. The purpose of NGA is to foster and encourage the growth and development of quality stock and to promote all matters that pertain to the best interests of the wholesale nursery growers. NGA developed the LAILG for compliance with the CWIL, Order #R4-2010-0186. PW was contracted by NGA to manage the technical aspect of the LAILG.

The LARWQCB is a State of California Agency that regulates water quality within the coastal watershed of Ventura and Los Angeles Counties under the authorities of the Federal Clean Water Act and State Porter Cologne Water Quality Control Act. The area under the jurisdiction of the LARWQCB is known as the Los Angeles Region.

In the Los Angeles Region, irrigated crops are the dominant agricultural land use. Water quality impacts associated with agriculture can be primarily traced to discharges resulting from irrigation or stormwater. These discharges typically contain pollutants that have been imported or introduced into the irrigation or stormwater; in addition, irrigation practices can mobilize and or concentrate some pollutants. In order to mitigate these potentially polluted discharges from impacting the beneficial uses of water bodies within the Los Angeles Region, the LARWQCB adopted a CWIL (Order No. R4-2005-0080) on November 3, 2005, as mandated by state law and policy.

The LAILG has members within the Dominguez Channel LA/Long Beach Harbors WMA, the Los Angeles River Watershed, the San Gabriel River Watershed, the Santa Monica Bay WMA, and the eastern portion of the Santa Clara River Watershed. AMRs submitted by the LAILG during the original CWIL term reported runoff water quality that exceeded established water quality benchmarks. All five Watersheds and WMAs have impacted waterbodies that appear on the Federal 303(d) list, and listed contaminants include constituents that could be related to agricultural uses.

On October 7, 2010, the LARWQCB adopted a second CWIL for the Los Angeles Region (Order No. R4-2010-0186). Under the second CWIL, water quality monitoring is to be continued throughout the Los Angeles Region. Exceedances are to be dealt with by implementing a WQMP that establishes procedures to reduce or eliminate pollutant loading into receiving waters. The goal of this program is to protect and improve water quality, and to attain water quality objectives in the receiving water bodies. As a condition of the CWIL program, dischargers are required to implement monitoring programs to assess the impacts of discharges from irrigated lands.

The objective of this AMR is to evaluate compliance with water quality benchmarks established in the CWIL during the first year of the program, and to report findings to the LARWQCB as specified in the MRP. This AMR describes the monitoring efforts and results that have been undertaken by the NGA for compliance with the CWIL.

2.0 BACKGROUND

The LAILG was comprised of 193 sites as of June 2012 (Figure 1). A complete list of current group members is included in Appendix A.

As outlined in the MRP, dated April 7, 2011, the LAILG will collect water quality data at 20 sampling sites throughout each year. Fifteen of the sampling locations previously established by LAILG and the LARWQCB during Order No. R4-2005-0080 will be utilized as sampling locations. One additional sampling site had been added, totaling sixteen sites that will be fixed for the duration of the CWIL period. Four additional revolving sites will be selected for sampling on a yearly basis.

All enrolled growers are segregated into four distinct sampling regions (Group 1 - Group 4) based on their geographic location. The majority of the sampling sites were continued from the last CWIL period and the sampling region boundaries were established to ensure that each group contained 4 of the 16 established fixed sampling sites and approximately the same number of total enrolled growers. Refer to Appendix A and Figure 1 for all LAILG enrolled growers and sampling regions.

A rotating sampling schedule was implemented for the 16 fixed sampling sites; 4 sites are sampled during each distinct sampling event. The sampling groups are cycled throughout the year, ensuring that each fixed sample site is visited at least once per year (Table 1). The approved sampling schedule ensures each sampling group collects a sample during each possible event (first or second, wet and dry) throughout the CWIL period.

Table 1 Sampling Schedule

YEAR	DRY SEASON MAY 15-OCTOBER 14		WET SEASON OCTOBER 15-MAY 14	
	EVENT #1	EVENT #2	EVENT #1	EVENT #2
1 (MAY 15, 2011-MAY 14, 2012)	GROUP 1	GROUP 2	GROUP 3	GROUP 4
2 (MAY 15, 2012-MAY 14, 2013)	GROUP 2	GROUP 3	GROUP 4	GROUP 1
3 (MAY 15, 2013-MAY 14, 2014)	GROUP 3	GROUP 4	GROUP 1	GROUP 2
4 (MAY 15, 2014-MAY 14, 2015)	GROUP 4	GROUP 1	GROUP 2	GROUP 3

The fixed sampling sites for each group were chosen to be representative of the LAILG based on their potential impacts to the surface waters of the Los Angeles Region. The following criteria was used in the selection of sampling sites:

- Potential runoff characteristics;
- Location within particular watershed;
- Proximity to waterbodies that are on the 303(d) list of impaired waterbodies;
- Amount of pesticide and fertilizer use reported by the members;
- Type of crop grown at each site;
- Access to sampling locations; and
- Previous or existing monitoring locations.

A single revolving sampling site was added to the four fixed sampling sites for each sampling event. Five sites were chosen for each sampling group region to serve as potential revolving sampling sites. Revolving sampling sites have been chosen using the criteria listed above. Fixed and revolving sampling sites are presented on Table 3.

For each sampling event, the revolving sampling site is selected from the list of potential revolving sampling sites for each sampling group region. The revolving site sampled is selected from the sampling group region scheduled for a particular sampling event.

If an exceedance is detected in a revolving sampling site, that site will be re-visited and re-sampled when the particular sampling group region is scheduled for the following years sampling event. If no exceedance is detected, or samples are not collected, a new revolving site is selected for the following years sampling event.

Crop types for the LAILG are placed into ten basic categories: general ornamental, orchard, color plant, greenhouse, sod farm, vineyard, row crop, multiple crop type, retail/multiple crop type, and cut flower. In order to minimize water use, the majority of the growers utilize either a drip irrigation or hand watering system, which produces very little to no dry season runoff. Some growers still use a sprinkler system in addition to or in replacement of hand watering and drip irrigation. A detailed description of each of the 16 fixed sampling sites along with the rotating sampling sites visited during this reporting period are presented in the following sections. Refer to Table 2 for crop type and acreage information specific to the LAILG

Table 2 Crop Type Classification by Acreage

Total Number of Enrolled Sites: 193		
CROP TYPE	**IRRIGATED ACREAGE**	**TOTAL ACREAGE**
Multiple Crop Type	1025.75	3253.00
General Ornamentals	378.53	561.78
Vineyards	75.28	198.09
Color Plants	110.18	156.10
Row Crops	64.70	91.58
Sod Farms	36.00	36.00
Retail/Multiple Crop Type	16.50	24.11
Greenhouses	9.05	22.73
Orchard	7.50	14.00
Cut Flower	1.70	3.80
Total LAILG Acreage	1725.19	4361.19

A regional map showing predetermined sampling locations, group boundaries, and all growers currently associated with the LAILG is presented as Figure 1. Maps displaying enrolled growers within each watershed of the LAILG region are presented as Figures 1.1 through 1.5. A complete list of the enrolled growers in the LAILG is included in Appendix A.

Table 3 Sampling Sites

FIXED SAMPLING SITES

NAME	SITE #	ADDRESS	ACRES IRRIGATED	CROP TYPE
GROUP 1				
Boething Treeland Farms, Inc.	19	23475 Long Valley Road Woodsland Hills, CA	32.00	Multiple Crop
Norman's Nursery	124	1550 E Broadway San Gabriel, CA	2.38	Multiple Crop
Ultra Greens Nursery	178	13102 Maclay Street Sylmar, CA	10.00	General Ornamentals
Valley Sod Farms, Inc.	184	6301 Balboa Boulevard Encino, CA	60.00	Sod Farms
GROUP 2				
Acosta Growers, Inc.	13	16412 Wedgeworth Drive Hacienda Heights, CA	4.50	General Ornamentals
Rainbow Garden Nursery	109	1132 & 1135 S Grand Avenue Glendora, CA	7.00	General Ornamentals
Colorama Wholesale Nursery	150	1025 N. Todd Ave. Asuza, CA	26.00	Color Plants
West Covina Wholesale	189	3425 Damien Ave La Verne, CA	1.50	General Ornamentals
GROUP 3				
Coiner Nursery	31	285 San Fidel La Puente, CA	62.00	Multiple Crop
H&H Nursery	64	6220 Lakewood Boulevard Lakewood, CA	2.50	Multiple Crop
Norman's Nursery	122	12500 Ramona Blvd Baldwin Park, CA	39.93	Multiple Crop
SY Nursery Inc.	168	19900 S Pioneer Blvd Cerritos, CA	4.75	General Ornamentals
GROUP 4				
ABC Nursery, Inc.	4	424 E. Gardena Boulevard Gardina, CA	19.19	General Ornamentals
New West Growers	53	1601 S. Santa Fe Ave Compton, CA	3.50	General Ornamentals
T-Y Nursery	176	Between Paulina/Prospect Redondo Beach, CA	2.00	General Ornamentals
Haggstrom Vineyard	210	6415 Busch Drive Malibu, CA	1.60	Vineyard

Table 3 (continued) Sampling Sites

REVOLVING SAMPLING SITES

NAME	SITE #	ADDRESS	ACRES IRRIGATED	CROP TYPE
GROUP 1				
Canyon Way Nursery	26	11745 Sherman Way Studio City, CA	4.25	General Ornamentals
Live Art Plantscapes, Inc.	105	18809 Plummer St Northridge, CA	1.80	Multiple Crop
Green Landscape Nurse	143	22216 1/2 Placerita Canyon Rd Newhall, CA	4.50	General Ornamentals
Sakaida Nursery, Inc.	158	8538-8601 Longden Ave San Gabriel, CA	6.89	General Ornamentals
Worldwide Exotics Inc.	204	11157 Orcas Avenue Lake Terrace, CA	2.00	General Ornamentals
GROUP 2				
Acosta Growers Inc.	11	669 S Azusa Ave Azusa, CA	7.50	General Ornamentals
Brothers Nursery, Inc.	20	Cerritos & Newburgh St Azusa, CA	2.98	Multiple Crop
Brothers Nursery, Inc.	22	Foothill Blvd and Walnut Ave San Dimas, CA	1.00	Multiple Crop
El Nativo Growers, Inc.	202	200 S. Peckham Azusa, CA	7.00	General Ornamentals
Organicado	255	460 Old ranch Road Bradbury, CA	1.00	Orchard
GROUP 3				
Carreon Nursery	50	7900 La Merced Road San Gabriel, CA	6.00	General Ornamentals
Humedo Nursery	70	10040 Imperial Highway Downey, CA	2.00	General Ornamentals
Centeno's Nursery & Landscaping	81	6850 Paramount Blvd Long Beach, CA	3.00	Multiple Crop
Jauregui Nursery, LLC	102	7200 E. Wardlow Road Long Beach, CA	13.00	General Ornamentals
San Gabriel Nursery & Florist	162	2015 Potrero Grande Monterey Park, CA	6.00	General Ornamentals
GROUP 4				
Color Spot Nurseries, Inc.	33	321 W. Sepulveda Blvd Carson, CA	22.00	Color Plants
International Plant Growers, Inc.	73	24500 Vermont Ave Harbor City, CA	5.00	Color Plants
Toro Nursery Inc.	170	17585 Crenshaw Blvd Torrance, CA	15.78	Color Plants
The Malibu Vineyard	221	3222 Rambla Pacifico Malibu, CA	1.90	Vineyards
Schoelkopf Vineyard	224	31499 Pacific Coast Hwy Malibu, CA	0.80	Vineyards

3.0 CURRENT EVENTS

Correspondence between NGA and the LARWQCB are included in Appendix B.

On April 7, 2011, LAILG submitted the *Monitoring and Reporting Plan* and *Quality Assurance Project Plan* to the LARWQCB. A Notice of Intent was electronically submitted by LAILG on December 9, 2011. The LARWQBC issued a Notice of Applicability for the LAILG in a letter dated February 10, 2012.

On November 3, 2011, LAILG submitted the *Bacteria Special Study* to the LARWQCB. The LARWQCB responded in a comment letter dated March 12, 2012. A *Revised Bacteria Special Study* was submitted on May 21, 2012, and approved by LARWQCB in a letter dated by LAILG June 22, 2012.

4.0 SAMPLING EVENTS

The previous CWIL (Order R4-2005-0080) was replaced on October 7, 2010 with the adoption of a new CWIL (Order R4-2010-0186). As a good faith measure, the LAILG conducted a sampling event during the wet season between the execution of the new CWIL and the required submittal date of an updated MRP on April 7, 2011. Sampling sites selected during this additional sampling event, therefore, did not conform to the sampling schedule outlined in LAILG's MRP. The results from the sampling event, conducted on March 21 and March 23, 2011, have been included in this report.

This report presents data generated during the first sampling year under the CWIL (May 15, 2011 through May 14, 2012; Year 1) as well as the additional wet season sampling event conducted in March of 2011. The sampling event schedule timeline is presented on Table 1.

During the dry season of the first year of the program, which lasted from May 15, 2011 through October 14, 2011, fixed and rotating sampling sites from Group #1 and Group #2 were visited on October 11, 2011 and October 12, 2011, respectively. All sampling sites were visited during normal operating hours with visits lasting for one hour or for a complete watering cycle, whichever was greater. During the visits, irrigation watering practices were observed and noted. Inspections included communicating with site operators regarding recently implemented BMPs at each site and verifying BMPs that had been implemented in the past. Irrigation runoff was not observed and samples were not collected at any of the selected sites visited during the dry season. See Table 4 at the end of this section for a historical list of collected samples. Photographs were taken at each site and are included in Appendix C.

The majority of nurseries utilized a drip or a hand watering irrigation system, and not enough water is used to generate runoff from the property. In comparison to the dry sampling events that

took place during 2007 through 2010, there was a continued reduction in the volume and evidence of irrigation runoff encountered at the sampling sites.

During the wet season of the first year of the program, which lasted from October 15, 2011 through May 14, 2012, fixed and rotating sampling sites from Group #3 and Group #4 were visited on March 17, 2011 and March 25, 2011, respectively. Sampling sites were visited during qualifying rain events and inspected for runoff. Adequate runoff for sample collection was observed at eight of the ten sampling sites visited during the wet season (Table 4). Photographs were taken at each site and are included in Appendix C.

TABLE 4

LIST OF COLLECTED SAMPLES
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP
CONDITIONAL WAIVER, BOARD ORDER NO. R4-2010-0186

	OWNER/TENANT	NGA #	PROPERTY ADDRESS	ACREAGE (Irrigated)	CWIL Order # R4-2005-0080												CWIL Order # R4-2010-0186					Samples to date
					YEAR 1 [1]				YEAR 2 [2]				YEAR 3		YEAR 4		Interim Sampling Event[3]	YEAR 1				
					Dry Season		Wet Season		Dry Season		Wet Season		Dry Season	Wet Season	Dry Season	Wet Season		Dry Season		Wet Season		
					Event #1	Event #2	Event #1	Event #2	Event #1	Event #2	Event #1	Event #2	Event #1	Event #1	Event #1	Event #1	March 2011	Event #1	Event #2	Event #1	Event #2	
GROUP 1	Boething Treeland Farms, Inc.	19	23475 Long Valley Road, Woodland Hills	32.00	8/13/07	ns	12/18/07	1/5/08	8/12/08	ns	11/26/08	ns	ns	ns*	ns	ns*	3/23/11	ns	nv	nv	nv	6
	Norman's Nsy-Broadway	124	1550 E Broadway, San Gabriel	2.38	8/13/07	ns	12/7/07	1/5/08	ns	ns	11/26/08	12/15/08	ns	ns*	ns	ns*	3/21/11	ns	nv	nv	nv	6
	Ultra Greens	178	13102 Maclay Street, Sylmar	10.00	Site not included as a sampling location.						ns	12/15/08	ns	ns*	ns	ns*	nv	ns	nv	nv	nv	1
	Valley Sod Farms, Inc.	184	16405 Chase Street, North Hills	36.00	Site not included as a sampling location.						11/26/08	12/15/08	ns	ns*	ns	ns*	nv	ns	nv	nv	nv	2
GROUP 2	Acosta Growers Inc.	13	16412 Wedgeworth Dr, Hacienda Hights	4.50	ns	ns	12/18/07	ns	ns	ns	ns	ns	ns	ns*	ns	ns*	nv	nv	ns	nv	nv	1
	M Downard-Rainbow Garden Nursery	109/110	1132 & 1135 S Grand Avenue, Glendora	7.00	ns	ns	1/4/08	ns	ns	ns	ns	12/15/08	ns	ns*	ns	ns*	nv	nv	ns	nv	nv	2
	R Wilson-Colorama Wholesale Nursery	150	1025 N. Todd Avenue, Azusa	26.00	ns	9/25/07	12/7/07	ns	ns	ns	11/26/08	12/15/08	ns	ns*	ns	ns*	3/21/11	nv	ns	nv	nv	5
	West Covina Wholesale-Damien	189	3424 Damien Ave, La Verne	0.50	ns	ns	1/4/08	ns	ns	ns	ns	12/15/08	ns	ns*	ns	ns*	nv	nv	ns	nv	nv	2
GROUP 3	Coiner Nursery	31	285 San Fidel, La Puente	62.00	ns	ns	ns	ns	ns	9/23/08	11/26/08	12/15/08	ns	ns*	ns	ns*	nv	nv	nv	3/17/12	nv	4
	H&H Nursery of Lakewood	64	6220 Lakewood Boulevard, Lakewood	2.50	ns	ns	1/23/08	ns	ns	ns	ns	12/15/08	ns	ns*	ns	ns*	nv	nv	nv	3/17/12	nv	3
	Norman's Nursery-Ramona	122	12500 Ramona Blvd, Baldwin Park	39.93	Site not included as a sampling location.													nv	nv	ns	nv	0
	SY Nursery Inc.	168	19900 S Pioneer Blvd, Cerritos	4.75	8/13/07	9/28/07	11/30/07	1/25/08	ns	ns	ns	12/15/08	ns	ns*	ns	ns*	nv	nv	nv	3/17/12	nv	6
GROUP 4	ABC Nursery, Inc.	4	424 E. Gardena Boulevard, Gardena	19.19	ns	ns	12/7/07	1/23/08	8/13/08	ns	ns	12/15/08	ns	ns*	ns	ns*	3/21/11	nv	nv	nv	3/25/12	6
	G Hernandez-New Westgrowers	53	1601 S. Santa Fe Ave, Compton	3.50	ns	ns	12/18/07	1/23/08	ns	ns	ns	ns	ns	ns*	ns	ns*	nv	nv	nv	nv	ns	2
	T-Y Nursery-Yard #6	176	Between Paulina/Prospect, Redondo Beach	2.00	ns	ns	12/18/07	ns	ns	ns	ns	ns	ns	ns*	ns	ns*	nv	nv	nv	nv	3/25/12	2
	Haggstrom Vinyard	210	6415 Busch Drive, Malibu	1.6	Site not included as a sampling location.						11/26/08	ns	ns	ns*	ns	ns*	nv	nv	nv	nv	3/25/12	2
ROTATING SITES	Brothers Nursery, Inc.	20	Cerritos & Newburgh St, Azusa	2.98	Site not included as a sampling location.													nv	ns	nv	nv	0
	Live Art Plantscapes, Inc.	105	18809 Plummer St, Northridge	1.80	Site not included as a sampling location.													ns	nv	nv	nv	0
	San Gabriel Nursery & Florist	162	2015 Potrero Grande, Monterey Park	6.00	Site not included as a sampling location.													nv	nv	3/17/12	nv	1
	Toro Nursery Inc.	170	17585 Crenshaw Blvd, Torrance	15.78	Site not included as a sampling location.													nv	nv	nv	3/25/12	1
DISCONTINUED SAMPLING SITES	Carlos Soto, Jr^	25	600 W. Alondra Blvd, Gardena	3.50	ns	ns	ns	ns	ns	ns	11/26/08	ns	ns	ns*	ns	ns*	Site no longer in operation.					1
	Norman's Nsy-Rosemead^	130	475 Rosemead Blvd, S. El Monte	16.56	8/6/07	ns	12/7/07	1/24/08	ns	ns	11/26/08	12/15/08	ns	ns*	ns	ns*	Site no longer in operation.					5
	Valley Crest Tree Company ^	182	16202 Yarnell St. and 16222 Filbert St, Sylmar	16.00	ns	ns	12/7/07	1/24/08	Site no longer in operation.													2
	Valley Sod Farms, Inc. ^	183	6301 Balboa Boulevard, Encino	60.00	8/6/07	9/26/07	12/18/07	1/5/08	Site no longer in operation.													4
	Schoelkopf Vineyard^	224	31499 Pacific Coast Highway, Malibu	0.80	Site not included as a sampling location.						ns	ns	ns	ns*	ns	ns*	Site no longer in operation.					0

1 Wet Season sampling events took place over five storms due to localized rain patterns and a general lack of uniform storm intensity and duration.

2 Wet Season sampling events took place during two storm days where all sites were visited.

3 The previous CWIL (Order R4-2005-0080) was replaced on October 7, 2010 with the adoption of a new Waiver (Order R4-2010-0186). As a good faith measure, the LAILG conducted a sampling event during the wet season between the execution of the new CWIL and the required submittal date of an MRP on April 7, 2011.

ns Not sampled due to minimal rainfall and/or no runoff observed during sampling event.

* No sampling activities were conducted

nv Site not scheduled to be visited during sampling event

Sample Collected

5.0 SUMMARY OF RESULTS

Samples were collected and analyzed as presented in the MRP and QAPP. Table 5 presents the list of constituents analyzed during this reporting period, and the general subdivisions that are ascribed to them for this report. Water quality objectives, as presented in the MRP, are presented In Table 6. Chronic toxicity testing was conducted on the following test species: Pimephales promelas (fathead minnow), Ceriodaphnia (water flea), and Selenastrum capricornutum (green algae). Samples were submitted to Weck and ABC, both State-certified laboratories. All analyses were conducted in accordance with current EPA guideline procedures, or as specified in this monitoring program. Complete laboratory analytical results from Weck are included as Appendix D. Complete toxicity results from ABC are included as Appendix E.

Table 5 List of Constituents for Testing

CONSTITUENT	UNITS	SUBDIVISION
Flow	Cubic feet per second	Field
pH	pH units	Field
Temperature	°F	Field
Dissolved Oxygen	mg/L	Field
Electrical Conductivity	µS/m	Field
Turbidity	NTU	Field
Trash	Observations	Field
Total Dissolved Solids	mg/L	General Chemistry
Total Suspended Solids	mg/L	General Chemistry
Hardness (as $CaCO_3$)	mg/L	General Chemistry
Chloride	mg/L	General Chemistry
Ammonia	mg/L	General Chemistry
Nitrate-Nitrogen	mg/L	General Chemistry
Phosphate	mg/L	General Chemistry
Sulfate	mg/L	General Chemistry
Total Copper	µg/L	General Chemistry
Organophosphate Suite[1]	µg/L	Pesticide
Organochlorines Suite[2]	µg/L	Pesticide
Toxaphene	µg/L	Pesticide
Pyrethroids	µg/L	Pesticide
Toxicity	TU_c[3]	Toxicity

[1] Organophosphate Suite: Bolstar, Chlorpyrifos, Demeton, Diazinon, Dichlorvos, Dimethoate, Disulfoton, Ethoprop, Fenchlorophos, Fensulfothion, Fenthion, Malathion, Merphos, Methyl Parathion, Mevinphos, Phorate, Tetrachlorvinphos, Tokuthion, Trichloronate.

[2] Organochlorine Suite: 2.4' - DDD, 2,4' - DDE, 2,4' DDT, 4,4' -DDD, 4,4' -DDE, 4,4' -DDT, Aldrin, BHC-alpha, BHC-beta, BHC-delta, BHC-gamma, Chlordane-alpha, Chlordane-gamma, Dieldrin, Endosulfan sufate, Endosulfan-I, Endosulfan-II, Endrin, Endrin Aldehyde, Endrin Ketone.

[3] Chronic Toxic Unit is the reciprocal of the sample concentration that caused no observable effect on the test orgamism by the end of a chronic toxicity test.

Table 6 Water Quality Objectives-CWIL Limits

CONSTITUENT	UNITS	WATER QUALITY BENCHMARK
Temperature	°F	(a)[1]
pH	pH units	(a)[1]
Dissolved Oxygen	mg/L	(a)[1]
Turbidity	NTU	(a)[1]
Trash	NA	(a)[1]
Total Suspended Solids	mg/L	(a)[1]
Total Disolved Solids	mg/L	(a)[1]
Chloride	mg/L	(a)[1]
Nitrate-Nitrogen	mg/L	(a)[1]
Ammonia-Nitrogen	mg/L	(a)[1]
Sulfate	mg/L	(a)[1]
Copper[2]	µg/L	$CCC=0.960e^{[(0.8545(\ln(hardness)))+(-1.702)]}$
Chlordane[2]	µg/L	0.00059
4,4' - DDT[2]	µg/L	0.00059
4,4' - DDD[2]	µg/L	0.00084
DDE[2]	µg/L	0.00059
Dieldrin[2]	µg/L	0.00014
Toxaphene[2]	µg/L	0.00075
Chlorpyrifos[3]	µg/L	0.025
Diazinon[3]	µg/L	0.10
Toxicity[4]	TU_c	1.0

(a)[1] Water Quality Benchmarks shall be based on the surface water and groundwater basin objectives currently contained in the Water Quality Control Plan Los Angeles Region (Basin Plan) or other applicable water quality standards established for the Los Angeles Region.

[2] The Water Quality Benchmarks are based on the CTR criteria.

[3] The Water Quality Benchmarks are based on the targets developed in the Calleguas Creek Watershed and Mugu Lagoon Toxicity, Chlorpyrifos, and Diasinon TMDL (Resolution No. R05-009)

[4] TU_c or Toxic Unit-Chronic is the reciprocal of the effluent concentration that causes no observable effects (i.e. no mortality) on the test organisms by the end of the chronic toxicity test.

mg/l	milligrams per liter
µg/L	micrograms per liter
^oF	degrees fahrenheit
TUc	chronic toxic unit
NTU	nephalitic turbidity units

5.1 GENERAL CHEMISTRY

General Chemistry water quality objectives for each site were obtained from the *Water Quality Control Plan, Los Angeles Region*, dated June 13, 1994. To choose the most appropriate water quality objectives for each site, all sites were assumed to drain through storm drains that ran perpendicularly to the closest blue line stream. The most relevant stream reach and related water quality objectives were chosen for each site using this assumption. Table 7 outlines the site-specific water quality objectives and associated sampling sites used to evaluate general chemistry results for this report. Complete laboratory analytical results for general chemistry constituents are presented in Appendix D and summarized on Table 9 (attached). Detailed information on site-specific sampling results is presented in Section 5.

Table 7 General Chemistry Water Quality Benchmarks

Watershed/stream reach	NGA Site #	Ammonia	TDS	Sulfate	Chloride	Nitrogen
Los Angeles River:						
Between Figueroa and	53	a)	1,500	350	150	8
Above Figueroa St.	19, 105, 184	a)	950	300	150	8
Rio Hondo above Santa Ana	124, 162	a)	750	300	150	8
Pacoima Wash above	178	a)	250	30	10	MUN
San Gabriel River:						
Between Firestone Blvd. and	168, 64	a)	MUN			
Between Ramona and Firestone Blvd.	13, 20, 31, 122, 189, 109	a)	750	300	150	8
Between Morris Dam and	150	a)	450	100	100	8
Dominguez Channel	4, 170	a)	MUN			
Santa Monica Bay	176, 210	a)	MUN			
USEPA Municipal Drinking Water Standards		a)	500	250	400	10

* All limits are recorded for milligrams per liter (mg/L)

a) Limit varies as a factor of temperature and pH. Objectives based on corresponding field readings for WARM water (One-hour average concentration), as outlined in the Water Quality Control Plan, Los Angeles Region

MUN No site specific objectives have been established. Objectives are based on USEPA guidelines for municipal drinking water standards.

Based on laboratory analytical results, general chemistry water quality benchmarks were exceeded in samples collected at six of the twelve sites sampled during this reporting period. Constituents exceeding CWIL benchmark concentrations were: nitrate in five samples, TDS in four samples, and sulfate in two samples. To date, there is no apparent correlation between individual site fertilizer use and sampling site exceedances for nutrients.

5.2 PESTICIDES

Pesticide water quality objectives were taken directly from the CWIL, as stated in the MRP and QAPP. In addition, pesticides that are outlined in USEPA ALB guidelines were evaluated. Any pesticide that exceeded the lowest value reported for either acute or chronic fish and invertebrates was considered as water quality exceedances (Table 8). These constituents are not directly covered in the CWIL. Based on laboratory analytical results, CWIL pesticide benchmarks were exceeded in samples collected at six of the twelve sites sampled during this reporting period. ALB pesticide guidelines were exceeded in samples collected at three of the twelve sites sampled during this reporting period. Complete laboratory analytical results for pesticides are presented in Tables 10 through 12 (attached). Detailed information on site-specific sampling results is presented in Section 6.

Table 8 Aquatic Life Benchmarks

CONSTITUENT	UNITS	ACUTE FISH	CHRONIC FISH	ACUTE INVERTIBRATES	CHRONIC INVERTIBRATES
Dimethoate	ng/L	3,000,000	430,000	21,500	40,000
Disulfoton	ng/L	19,500	39,000	1,950	37
Ethoprop	ng/L	150,000	24,000	22,000	800
Malathion	ng/L	2,000	4,000	250	60
Methyl Parathion	ng/L	500,000	80,000	70	20
Phorate	ng/L	500	1,000	300	210
Permethrin	ng/L	395	300	19.5	39

Chlorinated pesticides exceeding CWIL benchmark concentrations were: 4,4'-DDE in three samples, 4,4'-DDT in one sample, total Chlordane in one sample, and Dieldrin in one sample.

CWIL regulated compounds Aldrin, BHC-alpha, BHC-beta, BHC-gamma, Endosulfan-I, Endosulfan-II, Endrin, Heptachlor, and Heptachlor Epoxide were not detected above laboratory MDLs in samples collected.

Organophosphorus pesticides exceeding CWIL benchmark concentrations were: Chlorpyrifos in three samples and Diazinon in one sample. Additional organophosphorus pesticides not regulated by the CWIL that were detected in sampling events were Malathion and Stirophos. Concentrations of Malathion exceeded ALB pesticide guidelines in two samples.

Water quality benchmarks for pyrethroid pesticides were not established by the CWIL. Pyrethroid pesticides detected during sampling events were: Bifenthrin, Cypermethrin, Danitol, Deltamethrin, Dichloran, Pendimethalin, and Permethrin. Concentrations of Permethrin exceeded ALB pesticide guidelines in three samples.

5.3 TOXICITY

Toxicity water quality objectives were determined as outlined in the MRP and QAPP, and through communications with ABC laboratory. Runoff samples for toxicity testing were collected during the first wet season sampling event. As tests are only run on 100% concentration of samples (no dilution water), a numerical value of TUc cannot be accurately determined. Due to the lack of TUc values, a TIE was generally run on samples that exhibited a high mortality. Chronic toxicity testing was conducted for Pimephales Promelas (fathead minnow), Ceriodaphnia (water flea), and Selenastrum Capricornutum (green algae). The ambient water toxicity test results provide a reliable qualitative prediction of impacts in stream biota.

Adequate sample volume was collected so that TIE procedures could be initiated as soon as possible after toxicity was observed. TIE testing was only initiated if initial testing indicated the presence of significant toxicity in the sample. For the purpose of triggering TIE procedures, significant toxicity was defined as at least 50 percent mortality or a 50 percent reduction in growth. The 50 percent threshold is consistent with the approach recommended in guidance published by the EPA for conducting TIEs, which recommends a minimum threshold of 50 percent mortality because the probability of completing a successful TIE decreases rapidly for samples with less than this level of toxicity. Complete lab results for toxicity testing are presented in Appendix E and summarized in Table 13 (attached).

Based on laboratory analytical results, toxicity was significant enough to initiate a TIE in four of the eight samples collected for toxicity testing during this reporting period. TIE results from samples collected from NGA Site #4 and #150 indicated organophosphates to be the compound responsible for the major source of toxicity. These results are confirmed by the laboratory reported concentrations of organophosphate pesticides in the samples.

TIE results from the sample collected from NGA Site #31 indicated non-polar organics and metals to be the compounds responsible for the major source of toxicity. The CWIL program does not currently analyze for non-polar organic compounds and most metals. The metals that were analyzed for did not exceed CWIL limits, therefore, the type and source of the toxicity is unknown. The TIE result for the sample collected from NGA Site #19 yielded no observed effect.

Currently the CWIL program does not analyze for any herbicides, fungicides, and many of the adjuvants, which could also contribute to toxicity in samples. The complex interactions between various chemicals that are both included and not included in the CWIL program make the specific identification of toxicants difficult when only conducting a Phase I TIE. Detailed information on site-specific sampling results is presented in Section 6.

5.4 FIELD MONITORING RESULTS

Based on objectives outlined in the *Water Quality Control Plan, Los Angeles Region*, dated June 13, 1994, field monitoring readings did not exceed basin plan objectives. Elevated and depressed readings of pH and elevated readings of turbidity were seen at some sample sites, however, the low flow off of these sites would be unlikely to have any effect on the quality of the eventual receiving waterbody for these sites. Complete results for field measurements are presented in Table 14 (attached). Hard copies of field data sheets and field reports are kept on file at PW, and are available upon request.

6.0 SAMPLING SITES

Site-specific information and water quality objective exceedances are presented below. Table 9 presents General Chemistry results, Tables 10-12 present pesticide results, Table 13 presents toxicity sample results, and Table 14 presents field monitoring results.

6.1 FIXED SAMPLING SITES

6.1.1 ABC NURSERY – NGA SITE #4

Sampling Group: Group 4
Crop Type: General Ornamental
Sub basin: Dominguez Channel
City: Gardena
Total / Irrigated Acres: 19.2 / 11.5
Irrigation: Drip, hand watering
Approximate Water Use: 438,000 gallons per month / 22,820 gallons per acre per month[1]
Fertilizers/Amount: 14-6-5 / 1,500 lb per year / 78 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 33^{o} 52’ 55.5” W 118^{o} 16’ 06.1”

The northern half of the site drains northward into two storm drains located on the property boundary along Gardena Boulevard. The southern half of the site drains to the south, where the majority appears to percolate into the soil. Another storm drain is located on the southwest corner of the property. Based on drainage properties, one of the northern storm drains on the edge of the site was chosen as the sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 2 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Six.
A summary of historical sample data is presented on Table 15-4.

[1] Figures based on 2009 WQMP reported amounts.

Wet Season Sampling - CWIL Interim Period: The site was visited on March 21, 2011, during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011. Stormwater runoff was observed and a sample was collected.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 25, 2012, during the second wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, detected concentrations of nitrate exceeded the CWIL benchmarks in the sample collected during the March 25, 2012 sampling event.

Pesticide Exceedances:

During the first monitoring year of the CWIL, concentrations of DDT derivatives and total chlordane exceeded CWIL benchmark in the sample collected during the March 21, 2011 sampling event.

In addition, chlorpyrifos and diazinon concentrations exceeded CWIL benchmark in the sample collected during the March 21, 2011 sampling event. Chlorpyrifos exceeded CWIL benchmark in the sample collected during the March 25, 2012 sampling event.

USEPA ALB guidelines were exceeded for Malathion in samples collected during both the March 21, 2011 and March 25, 2012 sampling events.

Toxicity Exceedances: None.

BMP Implementation:

ABC Nursery has implemented BMPs from the Irrigation Management, Erosion and Runoff Management, and Non Production Areas categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objectives have been to reduce irrigation practices and minimize sediment runoff potential. Hand watering is aided by the use of watering wands; these devices help minimize the amount of over-spraying during watering. In order to limit the accumulation of soil debris on paved areas, the grower has implemented a biweekly (Wednesday and Friday) mechanical sweeping regimen to clean up the site. Additionally, the sweeper is operates one day before a forecasted rain event.

Pre Existing Structural Best Management Practices:

1. Sandbags have been placed on the fence line at the north end of the site to minimize the sediment runoff discharging from the grower's facility (Appendix C).

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visits on March 21, 2011 and March 25, 2012.

6.1.2 ACOSTA GROWERS – NGA SITE #13

Sampling Group: Group 2
Crop Type: General Ornamental
Sub basin: San Gabriel River
City: Hacienda Heights
Total/Irrigated Acres: 4.5/3.4 Acres
Irrigation: Hand watering
Approximate Water Use: 240,000 gallons per month[1]
Fertilizers/amount: 21-5-6 / 5,000 lb per year; 13-5-8 / 2,000 lb per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 33^{o} 59' 50.9" W 117^{o} 56' 56.9"

During storm events, it appears that surface runoff drains as sheet flow towards the north end of the property, into Wedgeworth Drive. A concrete lined channel borders the property on the southwest side of the property. If runoff is observed entering the channel, the sampling point will be from the runoff stream at the point where it enters the channel. If there is no direct runoff into the channel, the sampling point will be to the northern edge of the property by Wedgeworth Drive. An aerial photo of the site and sampling locations are presented on Figure 3 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – One.
A summary of historical sample data is presented on Table 15-13.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 12, 2011 and a thorough inspection was conducted. The inspection included the following: discussing the current CWIL conditions and the necessary BMPs with site manager, evaluation BMPs at the site, photographs of BMPs, and observation for irrigation

[1] Figures based on 2009 WQMP reported amounts.

runoff. No flowing water, or evidence of previous running water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

Acosta Nursery has implemented BMPs from the Pest Management, Nutrient Management, and Erosion and Runoff Management categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The growers main objectives have been to modify spraying techniques, limit nutrient loading potential, and minimize runoff. The grower is enforcing a no spraying policy for herbicides and pesticides one week prior to a forecasted rain event. Application of dry fertilizer will no longer be applied in a general broadcast method; instead it will be applied directly to intended containers.

Structural BMPs were not observed during the site visit on October 12, 2011. BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL. Photographs of the site are included in Appendix C.

6.1.3 BOETHING TREELAND FARMS – NGA SITE #19

Sampling Group: Group 1
Crop Type: Multiple Crop
Sub basin: Los Angeles River
City: Woodland Hills
Total / Irrigated Acres: 32.0/14.7 Acres
Irrigation: Sprinkler, hose, and trickle
Approximate Water Use: 1,720,515 gallons per month / 53,766 gallons per acre per month[1]
Fertilizers/amount: Slow release 23-6-12 / 37,395 lbs / 1,170 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 34^{o} 09' 51.1" W 118^{o} 38' 2.07"

The main area of the site drains eastward onto Valley Circle Boulevard. Based on site topography, the eastern edge of the site along Valley Circle Boulevard was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 4 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Six.
A summary of historical sample data is presented on Table 15-19.

Wet Season Sampling - CWIL Interim Period: The site was visited on March 21, 2011, during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011. Stormwater runoff was observed and a sample was collected.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 11, 2011 and a thorough inspection was conducted. The inspection included the following: discussing the current CWIL conditions and the necessary BMPs with site manager, evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. No flowing water, or evidence of previous running water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, detected concentrations of nitrate and TDS exceeded the CWIL benchmarks in the sample collected during the March 23, 2011 sampling event.

Pesticide Exceedances:

During the first monitoring year of the CWIL, no pesticide concentration exceeded CWIL benchmarks. However, the concentration of chlorpyrifos in the sample collected during the November 26, 2008 sampling event was equal to the CWIL benchmark.

Toxicity Exceedances:

Statistically significant toxicity was seen for Ceriodaphnia, Fathead Minnow and Selenastrum in the sample collected on March 23, 2011. Follow up TIE testing was conducted for the sample but did not show any observed effects.

BMP Implementation:

Boething Treeland Farm has implemented BMPs from the Erosion and Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. Due to the varied topography of the site, the grower's main objective has been to limit the amount of sediment running off site. In addition, all drainage culverts and sediment traps are maintained on a monthly basis and after each rain event.

Pre Existing Structural Best Management Practices:

1. Sandbags have been placed to create sediment traps in several locations to minimize erosion and sediment runoff discharging from the grower's facility (Appendix C).
2. A gravel base has been applied to the maintenance road paralleling Valley Circle Boulevard to help minimize erosion and the transportation of sediments (Appendix C).
3. Gravel has been applied to drain pipe outlets to minimize the amount of erosion and sediment transportation, and increase infiltration.

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visits on March 21, 2011 and October 22, 2011.

6.1.4 COINER NURSERY – NGA SITE #31

Sampling Group: Group 3
Crop Type: Multiple Crop
Sub basin: San Gabriel River
City: La Puente
Total/Irrigated Acres: 62.0/62.0 Acres
Irrigation: Drip, sprinkler, hand watering
Approximate Water Use: Utilizes on site well, water use unknown
Fertilizers/amount: 15-15-15 / 16,000 lb per year / 258 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 33° 3' 0" W 118° 0' 14.4"

The site drains southward, with the majority of the flow entering a catch basin. Based on drainage, the southern ditch adjacent to drainage pipes leaving the property was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 5 (Google Earth™ mapping services).

Total Samples Collected to Date – Four.
A summary of historical sample data is presented on Table 15-31.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 17, 2012, during the first wet season sampling event. The retention pond located onsite was overflowing into a drainage channel during the storm event. A stormwater runoff sample was collected from the drainage channel immediately prior to reaching the storm drain at the edge of the property.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, estimated concentrations of nitrate exceeded CWIL benchmarks in the sample collected during the March 17, 2012 sampling event.

Pesticide Exceedances: None.

Toxicity Exceedances:

During the first monitoring year of the CWIL, statistically significant toxicity was reported for Selenastrum in the samples collected on March 17, 2012. Follow up TIE testing was conducted for the sample and results indicated non-polar organic compounds contributed to the toxicity in the samples.

BMP Implementation:

Coiner Nursery has implemented BMPs from the Erosion and Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to recycle irrigation and stormwater runoff in order to limit the amount of sediment running off site.

Pre Existing Structural Best Management Practices:

1. Catch basins are in place to collect excess runoff from the majority of the property (Appendix C).
2. Channels that transport runoff across the site have been diverted to the catch basin at the south end of the site to minimize runoff discharging from the grower's facility.
3. Water collected in catch basin is pumped out and used as dust control for dirt roadways throughout site.

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on March 17, 2012.

6.1.5 NEW WEST GROWERS – NGA SITE #53

Sampling Group: Group 4
Crop Type: General Ornamental
Sub basin: Los Angeles River
City: Compton
Total/Irrigated Acres: 3.5/1.7 Acres
Irrigation: Unknown
Approximate Water Use: 100,000 gallons per month / 28,571 gallons per acre per month[1]
Fertilizers/amount: 20-5-5 / 2,000 lb per year[1] / 571 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 33° 52' 51.1" W 118° 12' 56.3"

The site drains into a small ditch that runs eastward into Santa Fe Avenue. Based on site topography, the eastern edge of the property by the drainage ditch was identified as the anticipated sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 6 (Google Earth™ mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-53.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 25, 2012, during the second wet season sampling event. Although rain had been occurring for at least one hour, no runoff from the site was observed and a sample was not collected.

BMP Implementation:

New Westgrowers has implemented BMPs from the Erosion and Runoff Management and Non-Production Areas categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objectives have been to minimize the amount of sediment runoff. All water bearing channels on the site have been redirected to a central channel and pass through a series of silt barriers before discharging from the site. In addition, to limit the accumulation of sediment in potential runoff, all paved areas are swept regularly.

Pre Existing Structural Best Management Practices:

1. A series of silt barriers were placed along the runoff channel located along the driveway leading to the east site entrance (Appendix C).
2. A ground cover cloth and gravel placed throughout the portion of the site located east of S. Santa Fe Avenue to minimize erosion and sediment runoff discharging from the grower's facility.

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on March 25, 2012. BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL.

6.1.6 H & H NURSERY OF LAKEWOOD – NGA SITE #64

Sampling Group: Group 3
Crop Type: Retail/Multiple Crop
Sub basin: San Gabriel River
City: Lakewood
Total/Irrigated Acres: 5.5/2.5 Acres
Irrigation: Hand watering
Approximate Water Use: 14,700 gallons per month / 5,880 gallons per acre per month[1]
Fertilizers/amount: 8-3-2 / 8,700 lb per year / 3,480 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 33° 52' 05.9" W 118° 08' 32.3"

The site drains to the west, into two drains on the western border of the property that feed directly to Lakewood Boulevard. Based on drainage, one of the western drains was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 7 (Google Earth™ mapping services).

Total Samples Collected to Date – Three.
A summary of historical sample data is presented on Table 15-64.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

[1] Figures based on 2009 WQMP reported amounts.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 17, 2012, during the first wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances: None.

Pesticide Exceedances:

During the first monitoring year of the CWIL, concentrations of total DDT and derivatives exceeded CWIL benchmarks in the sample collected during the March 17, 2012 sampling event.

Toxicity Exceedances: None.

BMP Implementation:

H&H Nursery has implemented BMPs from the Pest Management, Erosion and Runoff Management, and Non–Production Areas categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objectives have been to minimize the amount of pesticide and sediment runoff. In order to limit the accumulation of sediment in potential runoff, all paved areas are swept regularly.

Pre Existing Structural Best Management Practices:

1. Sandbags have been placed to create sediment traps near the storm drain adjacent to the sod storage area.

At the time of sampling, the sandbag sediment trap BMP was not implemented and had been pushed to the side (Appendix C). Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on March 17, 2012.

6.1.7 RAINBOW GARDEN NURSERY – NGA SITE #109

Sampling Group: Group 2
Crop Type: General Ornamental
Sub basin: San Gabriel River
City: Glendora
Total/Irrigated Acres: 1.8/1.0 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 232,644 gallons per month / 66,470 gallons per acre per month[1]
Fertilizers/amount: 25-5-5 / 2,000 lb per year / 571 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 34° 07' 4.8" W 117° 52' 22.8"

The site drains southward into a dirt road and eventually to Big Dalton Wash. Based on drainage and runoff indicators, the southern edge of the property exhibiting the most flow will be chosen as the sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 8 (Google Earth™ mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-109.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 12, 2011 and a thorough inspection was conducted. The inspection included the following: evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. No flowing water, or evidence of previous running water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

Rainbow Nursery has implemented BMPs from the Pest Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to limit the amount of pesticide runoff. Initiating an Integrated Pest Management Program has allowed for the isolation of specific pests and performing spot spraying, reducing the amount of pesticides use at the site.

Pre Existing Structural Best Management Practices:

1. Changes were made to the soil-mixing ratio to increase the water holding capacity.
2. Gravel was installed across the site to minimize the transportation of sediments.
3. Rope was used to anchor large trees in 15-gallon pots to prevent them from blowing over and spilling topsoil and fertilizer

No additional BMPs were observed during the site visit on October 12, 2011. BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL.

6.1.8 NORMAN'S NURSERY -RAMONA –NGA SITE #122

Sampling Group: Group 3
Crop Type: Multiple Crop
Sub basin: Los Angeles River
City: Baldwin Park
Total/Irrigated Acres: 39.9/31.9 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 9,074,736 gallons per month / 227,266 gallons per acre per month[1]
Fertilizers/amount: 23-6-12 / 64,000 lb per year / 1,603 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 34° 04' 12.2" W 118° 00' 2.92"

The site drains southward off the property into a storm water channel. Based on drainage and site topography, the southern tip of the site was identified as the anticipated sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 9 (Google Earth™ mapping services).

Total Samples Collected to Date – None.
A summary of historical sample data is presented on Table 15-130.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

[1] Figures based on 2009 WQMP reported amounts.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 17, 2012, during the first wet season sampling event. No stormwater runoff was observed and a sample was not collected.

BMP Implementation:

Normans Nursery-Ramona is not currently initiating BMPs, as the site was just recently incorporated into the program. The site will begin to implement BMPs as outlined for the large grower group in LAILG's revised WQMP, dated July 8, 2009. BMPs required universally throughout the LAILG will be initiated by July 1, 2012, if not previously implemented. Photographs of the site are included in Appendix C.

6.1.9 NORMAN'S NURSERY– NGA SITE #124

Sampling Group: Group 1
Crop Type: Multiple Crop
Sub basin: Los Angeles River
City: San Gabriel
Total/Irrigated Acres: 10.4/8.3 Acres
Irrigation: Drip, hand watering
Approximate Water Use: 991,100 gallons per month / 95,298 gallons per acre per month[1]
Fertilizers/amount: 23-6-12 / 6,000 lb per year / 577 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 34^{o} 05' 56.9" W 118^{o} 04' 56.0"

The site drains southward into a gravel bed along the southern border of the property, near the railroad tracks. Based on drainage and runoff indicators, the south/southwest edge of the property was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 10 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Six.
A summary of historical sample data is presented on Table 15-124.

Wet Season Sampling - CWIL Interim Period: The site was visited on March 21, 2011, during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011. Stormwater runoff was observed and a sample was collected.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 11, 2011 and a thorough inspection was conducted. The inspection included the following: evaluation of BMPs at the site, photographs of BMPs, and observation for

[1] Figures based on 2009 WQMP reported amounts.

irrigation runoff. No flowing water was observed, however, evidence of previous irrigation runoff was noted. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

General Chemistry Exceedances: None.

Pesticide Exceedances:

During the first monitoring year of the CWIL, concentrations of Dieldrin exceeded CWIL benchmark in samples collected during the March 21, 2011 sampling events.

Toxicity Exceedances: None.

BMP Implementation:

Norman's Nursery, Broadway has implemented BMPs from the Irrigation Management, Nutrient Management, and Erosion and Runoff Management categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to lower the amount of irrigation water and fertilizer used, and to limit the amount of sediment runoff. Water usage at the site has been lowered whenever possible. In addition, monitoring of all drip irrigation lines is conducted to insure proper utilization. Fertilizer nutrients added to watering system have been lowered and consistently monitored, lowering the potential for higher nutrient runoff rates. All culverts surrounding the site are inspected and properly sized for anticipated storm events.

Pre Existing Structural Best Management Practices:

1. Sandbags have been placed on the southeast fence line to reinforce containment culverts and create a sediment trap. The drainage channel leads to a small catch basin to help settle out solids, minimizing erosion and sediment runoff discharging from the grower's facility (Appendix C).

During site visit trees on the northern section of the site were being moved; Edison is in the process of upgrading electrical towers on the site. Additional BMPs were not observed during the site visits on March 21, 2011 or October 11, 2011.

6.1.10 COLORAMA – NGA SITE #150

Sampling Group: Group 2
Crop Type: Color plants
Sub basin: San Gabriel River
City: Azusa
Total/Irrigated Acres: 26.0/15.3 Acres
Irrigation: Drip, ebb and flow, hand watering
Approximate Water Use: Water recycled/reused
Fertilizers/amount: 8.4-2.7-4.2 / 15,154 lb per year / 583 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 34^{o} 08'27.3" W 117^{o} 55' 33.8"

Based on site topography, it appears that there could be some slight runoff on the southwestern corner of the property during heavy rain events. The majority of the site drains to the center, and they are currently installing a sump pump with two collection ponds to catch and reuse all the irrigation and storm runoff from the site. Based on drainage properties, the southwestern corner of the property was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 11 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Five.
A summary of historical sample data is presented on Table 15-150.

Wet Season Sampling - CWIL Interim Period: The site was visited on March 21, 2011, during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011. Stormwater runoff was observed and a sample was collected.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 12, 2011 and a thorough inspection was conducted. The inspection included the following: discussing the current CWIL conditions and the necessary BMPs with site manager, evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. Irrigation runoff was pooling in the center of the site, however, no flowing water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, concentrations of nitrate, and TDS exceeded CWIL benchmarks in the sample collected during the March 21, 2011 sampling event.

[1] Figures based on 2009 WQMP reported amounts.

Pesticide Exceedances:

During the first monitoring year of the CWIL, concentrations of chlorpyrifos exceeded CWIL benchmark in the sample collected during the March 21, 2011 sampling event.

USEPA ALB guidelines were exceeded for Permethrin in samples collected during the March 21, 2011 sampling events.

Toxicity Exceedances:

During the first monitoring year of the CWIL, statistically significant toxicity was reported for Selenastrum in the samples collected on March 21, 2011. Follow up TIE testing was conducted for the sample and results indicated organophosphates contributed to the toxicity in the samples.

BMP Implementation:

Colorama Nursery has implemented BMPs from the Pest Management, Nutrient Management, and Erosion and Runoff Management categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to lower the amount of pesticides and nutrient used, and limit sediment runoff. The grower has reduced the frequency of pyrethroid pesticides sprayed, supplementing pyrethroids with boipesticides when possible. To limit the amount of sediment runoff, native grasss has been planted in the main culvert exiting the site. Fertilizer injectors have been lowered to minimize the amount of nutrients in irrigation water. Slow release soil fertilizer has been increased to offset the decrease in irrigation fertilizers used.

Pre Existing Structural Best Management Practices:

1. The majority of the site drains to a center location, and a sump pump is installed that pumps water to a collection pond. The water from this pond is treated through a filtration and ozone system, and the water is reused on-site. Only a small amount of the property drains off the site (Appendix C).
2. The culvert that drains the southern growing area has been planted with a native grass to minimize erosion and sediment runoff discharging from the grower's facility (Appendix C).
3. Wash water on the loading docks has been changed from fertilizer-injected water to municipal water. This will help reduce the amount of nutrients discharging from the grower's facility.
4. Concrete drainage channels were fitted with filters to minimize sediment transport moving offsite; sediment is periodically removed.
5. Graveled roadways throughout site to reduce sediment runoff.

Additional BMPs were not observed during the site visits on March 21, 2011 and October 12, 2011.

6.1.11 SY NURSERY, INC. – NGA SITE #168

Sampling Group: Group 3
Crop Type: General Ornamental
Sub basin: San Gabriel River
City: Cerritos
Total/Irrigated Acres: 6.0/4.75 Acres
Irrigation: Drip, sprinklers
Approximate Water Use: 78,545 gallons per month / 16,536 gallons per acre per month[1]
Fertilizers/amount: 21-7-6 / 6,000 lb per year / 1,263 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 33° 51' 3.2" W 118° 4' 55.2"

The site drains to the east of the property through drainage ditches and runs into Jacob Avenue. Based on drainage properties, the eastern edge of the property by the drainage ditches was chosen as the sampling location. An aerial photo of the site and the sampling location is presented on Figure 12 (Google Earth™ mapping services).

Total Samples Collected to Date – Six.
A summary of historical sample data is presented on Table 15-168.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 17, 2012, during the first wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, concentrations of nitrate, sulfate, and TDS exceeded CWIL benchmarks in the sample collected during the March 17, 2012 sampling event.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

BMP Implementation:

SY Nursery has implemented BMPs from the Pest Management and Erosion and Runoff Management categories outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to lower the amount of pesticides used and limit sediment runoff. Pesticide spraying is not conducted prior to forecasted storm events and all fertilizers, pesticides, and spray equipment are kept in enclosed storage sheds.

Pre Existing Structural Best Management Practices:

1. Spray equipment has been covered to provide protection from rain.
2. Gravel has been added to driveway near western gate to minimize sediment runoff discharging from the grower's facility.

BMPs observed during the site visit on March 17, 2012, and presented in Appendix C were:

1. A series of silt screen barriers were placed along the runoff channel located along the southern property line leading to the east site entrance.

6.1.12 TY NURSERY –NGA SITE #176

Sampling Group: Group 4
Crop Type: General Ornamental
Sub basin: Santa Monica Bay
City: Redondo Beach
Total/Irrigated Acres: 12.0/7.5 Acres
Irrigation: Drip, sprinkler
Approximate Water Use: 979,946 gallons per month / 387,383 gallons per acre per month[1]
Fertilizers/amount: 24-4-9/ 12,000 pounds per year / 6,000 pounds per acre per year[1]
Anticipated discharge: Stormwater only
Sample site GPS location: N 33^{o} 51' 24.4" W 118^{o} 22' 51.6"

The site drains to the center, and they currently have a catch basin in the center to catch site runoff. During heavy rains, runoff from the site is reported to occur, and appears that it would run off to the southeast corner of the site. An aerial photo of the site and sampling location is presented on Figure 13 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-176.

[1] Figures based on 2009 WQMP reported amounts.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 25, 2012, during the second wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

BMP Implementation:

TY Nursery has implemented BMPs from the Erosion and Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to limit the amount of sediment runoff.

Pre Structural Existing Best Management Practices:

1. Catch basins are in place to collect excess runoff from the property, and the boundary of the property is lined with sand bags and control measures to alleviate runoff of water and sediment.
2. The main driveway leading into the yard has been covered in a gravel base and lined with sandbags and straw wattles to minimize erosion and sediment runoff discharging from the grower's facility (Appendix C).
3. The majority of the perimeter of the site has been lined with sandbags and straw wattles (Appendix C).
4. The catch basin has been re-sized and is maintained for storm events.

At the time of sampling, the above referenced BMPs were being implemented, however, large amounts of sediment had been carried by heavy flows into the sidewalk and roadway. Additional BMPs will need to be implemented to control sediment during heavy rain events. Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on March 25, 2012.

6.1.13 ULTRA GREENS NURSERY – NGA SITE #178

Sampling Group: Group 1
Crop Type: General Ornamental
Sub basin: Los Angeles River
City: Sylmar
Total/Irrigated Area: 10.0/8.5 Acres
Irrigation: Drip, Hand Watering
Approximate Water Use: Unknown
Fertilizers/amount: 16-6-8, 25-5-5 / 4,000 lb per year / 400 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 34° 17' 57.42" W 118° 25' 06.46"

The drainage gradient flows to the south, collects in a concrete channel along the fence line bordering the 210 northbound onramp, and then flows southeast to leave the property. Based on drainage properties, the end of the concrete channel was identified as the anticipated sampling location.. An aerial photo of the site and anticipated sampling location is presented on Figure 14 (Google Earth™ mapping services).

Total Samples Collected to Date – One.
A summary of historical sample data is presented on Table 15-178.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 11, 2011 and a thorough inspection was conducted. The inspection included the following: discussing the current CWIL conditions and the necessary BMPs with site manager, evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. Evidence of irrigation was present, however, no flowing water leaving the site was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

Ultra Greens Nursery has implemented BMPs from the Erosion and Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to limit the amount of sediment runoff from the site.

Pre Structural Existing Best Management Practices:

1. Sandbags and gravel have been added along the western property edge (Appendix C)
2. A gravel base has been applied to entry driveway, to minimizing the amount of sediment transport (Appendix C).

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on October 11, 2011. BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL.

6.1.14 VALLEY SOD FARMS – NGA SITE #184

Sampling Group: Group 1
Crop Type: Sod farm
Sub basin: Los Angeles River
City: North Hills
Total/Irrigated Area: 36.0/36.0 Acres
Irrigation: Sprinkler
Approximate Water Use: 1,650,000 gallons per month / 45,833 gallons per acre per month[1]
Fertilizers/amount: 21-7-14 / 43,200 lb per year / 1,200 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 34^{o} 13' 29.41" W 118^{o} 29' 22.83"

The site is split into three lots, with the northern section selected as the sampling location based on site topology and drainage patterns. The northern section is a five-acre lot with a drainage gradient flowing to the east. Water flows into a drainage ditch along the eastern side of the property and flows south onto Chase Street. Based on drainage properties, the point of exit from the property onto Chase Street was identified as the anticipated sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 15 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-184.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 11, 2011 and a thorough inspection was conducted. The inspection included

[1] Figures based on 2009 WQMP reported amounts.

the following: discussing the current CWIL conditions and the necessary BMPs with site manager, evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. No flowing water, or evidence of previous running water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

Valley Sod Farms, has implemented BMPs from the Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to limit the amount of sediment runoff from the site.

Pre Structural Existing Best Management Practices:

1. A sod barrier has been replaced along the southeast fence line (Appendix C).

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on October 11, 2011. BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL.

6.1.15 WEST COVINA WHOLESALE –NGA SITE #189

Sampling Group: Group 2
Crop Type: General Ornamental
Sub basin: San Gabriel River
City: La Verne
Total/Irrigated Area: 1.5/1.25 Acres
Irrigation: Drip
Approximate Water Use: 160,000 gallons per month / 106,667 gallons per acre per month[1]
Fertilizers/amount: 21-5-12 / 2,000 lb per year / 1,333 pounds per acre per year[1]
Anticipated discharge: Stormwater and Irrigation
Sample site GPS location: N 34^{o} 06' 59.1" W 117^{o} 47' 03.9"

The western end of the site drains westward into a grass field that borders the edge of the property. The eastern half appears to drain eastward towards Damien Avenue as sheet flow. Based on drainage properties, the eastern edge of the property along Damien Avenue was identified as the anticipated sampling location.. An aerial photo of the site and anticipated sampling location is presented on Figure 16 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-189.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 12, 2011 and a thorough inspection was conducted. The inspection included the following: evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. No flowing water, or evidence of previous running water was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

West Covina Nursery has implemented BMPs from the Erosion and Runoff Management category outlined in the LAILG's revised WQMP, dated July 8, 2009. The grower's main objective has been to limit the amount of sediment runoff from the site. To limit the amount of sediment runoff, the grower has constructed a soil burm and planted vegetation along the fence line. In addition, gravel has been placed on the outside of the fence line to minimize sediment runoff.

Pre Structural Existing Best Management Practices:

1. The eastern entrance along Damien Avenue has been covered with a gravel base and bermed to minimize erosion and sediment runoff discharging from the grower's facility (Appendix C).

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. No additional BMPs were observed during the site visit on October 11, 2011.
BMP effectiveness cannot be evaluated as no samples were collected during either the interim sampling event or the first sampling year under the new CWIL.

6.1.16 HAGGSTROM VINEYARD– NGA SITE #210

Sampling Group: Group 4
Crop Type: Vineyard
Sub basin: Santa Monica Bay
City: Malibu
Total/Irrigated Area: 2.0/1.4 Acres
Irrigation: Drip
Approximate Water Use: Updated information pending
Fertilizers/amount: 52-0-0 / 40 lb per year / 25 pounds per acre per year[1]
Discharge: Stormwater only
Approximate sample site GPS location: N 34° 01' 11.59" W 118° 49' 10.89"

The vineyard is located on the northwestern section of the site. A series of concrete channels collect surface water and direct it towards the southern gate. Based on drainage properties, the area immediately outside the southern gate was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 17 (Google Earth™ mapping services).

Total Samples Collected to Date – Two.
A summary of historical sample data is presented on Table 15-210.

Wet Season Sampling - CWIL Interim Period: No samples were collected or site visits conducted during the interim sampling period between the execution of the new CWIL on October 7, 2010 and the required submittal date of an MRP on April 7, 2011.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 25, 2012, during the second wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances:

During the first monitoring year of the CWIL, concentrations of sulfate and TDS exceeded CWIL benchmarks in the sample collected during the March 25, 2012 sampling event.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

BMP Implementation:

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. Structural BMPs were not observed during the site visit on October 12, 2012. Photographs of the site are included in Appendix C.

6.2 VISITED REVOLVING SAMPLING SITES

6.2.1 BROTHERS NURSERY, INC – NGA SITE # 20

Sampling Group: Group 2
Crop Type: Multiple Crop
Sub basin: San Gabriel River
City: Azusa
Total/Irrigated Area: 4.5/2.98 Acres
Irrigation: Drip, Sprinkler, and Hand Water
Approximate Water Use: Updated information pending
Fertilizers/amount: Updated information pending
Discharge: Stormwater and Irrigation
Approximate sample site GPS location: N 34^{o} 06' 46.10" W 117^{o} 54' 00.58"

The site is split into three lots, with the central section selected as the sampling location based on site topology and drainage patterns. Each of the lots are predominately flat with slight gradients near the driveways. Based on drainage properties, the point of exit from the property onto Heathdale Avenue and Cerritos Avenue were identified as the anticipated sampling locations. An aerial photo of the site and anticipated sampling locations is presented on Figure 18 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – None.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 12, 2011 and a thorough inspection was conducted. The inspection included the following: evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. Evidence of irrigation was present, however, no flowing water leaving the site was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. Structural BMPs were not observed during the site visit on October 12, 2011. Photographs of the site are included in Appendix C.

As of June 2012, Brothers Nursery is no longer an enrolled member of LAILG. They have moved their nursery operation outside of LA County.

6.2.2 LIVE ART PLANTSCAPES, INC – NGA SITE # 105

Sampling Group: Group 1
Crop Type: General Ornamental
Sub basin: Los Angeles River
City: Northridge
Total/Irrigated Area: 3.66/1.8 Acres
Irrigation: Drip, Sprinkler, and Hand Water
Approximate Water Use: Updated information pending
Fertilizers/amount: Updated information pending
Discharge: Stormwater only
Approximate sample site GPS location: N 34^{o} 14' 34.26" W 118^{o} 32' 36.10"

The site is a 3.66-acre lot with a slight southern sloping gradient at the entrance. The majority of the site is flat and irrigation runoff is not expected. Based on drainage properties, the point of exit from the property onto Plummer Street was identified as the anticipated sampling location. An aerial photo of the site and anticipated sampling location is presented on Figure 19 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – None.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was visited on October 11, 2011 and a thorough inspection was conducted. The inspection included the following: evaluation BMPs at the site, photographs of BMPs, and observation for irrigation runoff. Evidence of irrigation was present, however, no flowing water leaving the site was observed. An irrigation runoff sample was not collected during this event.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was not scheduled to be visited during the wet season this year.

BMP Implementation:

BMPs observed during the site visit on October 11, 2011, and presented in Appendix C were:

1. Graveled roadways throughout site to reduce sediment runoff.
2. Ground cloths have been placed beneath planters, minimizing the amount of sediment transport.

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visit.

6.2.3 SAN GABRIEL NURSERY AND FLOREST – NGA SITE # 162

Sampling Group: Group 3
Crop Type: General Ornamental
Sub basin: Los Angeles River
City: Monterey Park
Total/Irrigated Area: 10/6 Acres
Irrigation: Drip, Sprinkler, and Hand Water
Approximate Water Use: Updated information pending
Fertilizers/amount: Updated information pending
Discharge: Stormwater only
Approximate sample site GPS location: N 34^{o} 02’ 26.07” W 118^{o} 06’ 23.36”

Two concrete channels collect surface water and direct it towards the southeastern gates. The eastern most gate collects water from the site as well as the adjacent Edison lot. Based on drainage properties, the western most gate was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 20 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – One.
A summary of sample data is presented on Table 15-162.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 17, 2012, during the first wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances: None.

Pesticide Exceedances: None.

Toxicity Exceedances: None.

BMP Implementation:

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. Structural BMPs were not observed during the site visit on March 17, 2012. Photographs of the site are included in Appendix C.

6.2.4 TORO NURSERY, INC – NGA SITE # 170

Sampling Group: Group 4
Crop Type: Color Plants
Sub basin: Dominguez Channel
City: Torrance
Total/Irrigated Area: 17/15.78 Acres
Irrigation: Hand Water
Approximate Water Use: Updated information pending
Fertilizers/amount: Updated information pending
Discharge: Stormwater only
Approximate sample site GPS location: N 33^{o} 52' 15.43" W 118^{o} 19' 35.88"

The site has a slightly sloping gradient towards the center of the property as well as a slight gradient at the entrance. Based on drainage properties, the point of exit from the property onto Crenshaw Blvd was chosen as the sampling location. An aerial photo of the site and sampling location is presented on Figure 21 (Google Earth^{tm} mapping services).

Total Samples Collected to Date – One.
A summary of sample data is presented on Table 7-170.

Dry Season Sampling - Year 1 (May 15, 2011 through October 14, 2011): The site was not scheduled to be visited during the dry season this year.

Wet Season Sampling - Year 1 (October 15, 2011 through May 14, 2012): The site was visited on March 25, 2012, during the second wet season sampling event. Stormwater runoff was observed and a sample was collected.

General Chemistry Exceedances: None.

Pesticide Exceedances:

During the first monitoring year of the CWIL, concentrations of total DDT and derivatives exceeded CWIL benchmarks in the sample collected during the March 25, 2012 sampling event.

Toxicity Exceedances: None.

BMP Implementation:

Non-structural BMPs such as nutrient and pest management could not be verified visually during the site visits. Structural BMPs were not observed during the site visit on March 25, 2012. Photographs of the site are included in Appendix C.

7.0 DISCUSSION / CONCLUSION

During the first sampling year under the CWIL (May 15, 2011 through May 14, 2012), two sampling event were conducted during the dry season and two sampling events were conducted during the wet season. One wet season sampling event was additionally conducted during March of 2011. The results from the March 2011 sampling event were not included in the previous AMR and were therefore included with this report.

Results from this AMR indicate that the preparation of a WQMP will be required. The WQMP will contain a more detailed discussion regarding: constituents of concern detected at the sampling sites, evaluation of site conditions and information to determine possible sources of benchmark exceedance, and will list existing and possible best management practices to help mitigate the issue. The WQMP will be submitted to LARWQCB by December 1, 2012.

TABLE 9

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry												
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu
NGA #4	LAILG-NGA4-5	3/21/11	0.69	10	0.31 EB	1.5	8.3	0.52	110	0.31 EB	2.6	810	62	25	0.230
NGA #124	LAILG-NGA124-6	3/21/11	0.36	9.7	1.8 EB	6.7	24	1.8	240	1.8 EB	2.7	620 FD	61	24	0.045
NGA # 150	LAILG-NGA 150-5	3/21/11	3.7	28	12 EB	**120**	60 MS-02	32	**1,200**	12 EB	32	110	300	120	0.031
NGA #19	LAILG-NGA19-6	3/23/11	0.54 MS-01	110	0.86 EB,MS-01	**55**	250	1.1	**1,200**	0.86 EB,MS-02	3.4	550	440	180	0.090
Duplicate	LAILG-NGA-DUP	3/21/11	0.35	9.7	1.7 EB	6.6	24	1.8	220	1.7 EB	2.3	82	57	23	0.035
Equip Blank	LAILG-NGA-EB	3/21/11	nd	nd	2.0	nd	nd	nd	nd	2.0	nd	nd	0.37	0.15	0.0028
Field Blank	LAILG-NGA- FB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-6	3/17/12	0.89	82	1.1 O9	**35**	**470**	1.7	**1,100**	1.1 O9	8.4	1200	500	200	0.110
NGA #31	LAILG-NGA31-4	3/17/12	1.1	55	1.0 O9	**12**	160	0.90	520	1.0 O9	2.0	81	240	95	0.027
NGA #162	LAILG-NGA162-1	3/17/12	0.16	35	0.96 O9	5.9	120	0.95	350	0.96 O9	1.0	5	140	57	0.014
NGA #64	LAILG-NGA64-3	3/17/12	0.79 FD	5.8	0.28 O9	0.70 FD	8.4	0.32	57	0.28 O9	1.5 FD	500 FD	51	21	0.047
Duplicate	LAILG-NGA-DUP	3/17/12	0.60	5.4	0.25 O9	1.3	8.6	0.27	46	0.25 O9	1.1	380	44	18	0.049
Equip Blank	LAILG-NGA-EB	3/17/12	nd	nd	nd O9	nd	nd	nd	nd	nd O9	nd	nd	nd	nd	0.00073
Field Blank	LAILG-NGA- FB	3/17/12	nd	nd	nd O9	nd	nd	nd	nd	nd O9	nd	nd	nd	nd	0.00050
NGA #4	LAILG-NGA4-6	3/25/12	na*	69	1.1	**17**	52	1.0	320	1.1	1.4	34 FD	100 FD	42 FD	0.051
NGA #170	LAILG-NGA170-1	3/25/12	0.31	18	0.65	1.6	14	0.60	130	0.65	0.86	100	61	24	0.030
NGA #176	LAILG-NGA176-2	3/25/12	0.30	29	0.99	8.7	43	0.99	220	0.99	2.2	550	80	32	0.066
NGA #210	LAILG-NGA210-2	3/25/12	0.20	110	1.4	0.57	**250**	1.3	**700**	1.4	2.8 MS-02	86	270	110	0.0060
Duplicate	LAILG-NGA-DUP	3/25/12	2.2 P	55	1.1	**17**	44	1.1	290	1.1	1.3	21	61	25	0.051
Equip Blank	LAILG-NGA-EB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			See Table 7												
MDL			0.048	0.10	0.00022	0.020	0.10	0.0014	4.0	0.00022	0.0014	5	0.039	0.016	0.00027
RL			0.10	0.50	0.002	0.11	0.50	0.010	10	0.002	0.010	5	0.25	0.10	0.00050

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estimated by the QA Officer.

CWIL Conditional waiver for irrigated lands, order #R4-2005-008

EB Estimated concentration, constituent detected at greater than 10% in equipment blank

FD Estimated concentration. Field Duplicate RPD >25%.

FB Estimated concentration, constituent detected at greater than 10% in field blank

na* Amonia not analyzed due to sample collection via peristaltic pump

p Estimated concentration due to sample collection via peristaltic pump

O9 This sample was received with the EPA recommended holding time expired

MS-01 The spike recovery for this QC sample is outside of the established control limits possibly due to matrix interference

MS-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

TABLE 9 cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry									
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS
NGA #110	LAILG-NGA110-1	1/4/08	0.41	10.65	1.3052	2.36	18.22	1.74	162	1.81	2.033	24
NGA #189	LAILG-NGA189-1	1/4/08	0.59	7.29	0.6851	1.83	26.43	1.33	192	1.8	2.475	20
NGA #19	LAILG-NGA19-3	1/5/08	0.12	**157.52**	0.2125	0.44	**451.78**	0.96	**1,030**	1.26	1.173	84
NGA #124	LAILG-NGA124-3	1/5/08	15.5	28.3	0.9814	**28.34**[Q1]	57.68	1.66	378	1.66	2.228	40
NGA #183	LAILG-NGA183-4	1/5/08	0.73	5.82	1.0874	1.4	6.36	0.23	106	1.29	1.729	510
NGA #4	LAILG-NGA4-2	1/23/08	0.24	1.45	0.1891	0.6	3.87	0.15	145	0.26	1.848	27
NGA #53	LAILG-NGA53-2	1/23/08	0.31	2.19	0.6425	0.76	14.92	0.82	nd	0.68	1.993	516
NGA #64	LAILG-NGA64-1	1/23/08	0.20	3.82	0.2818	3.83	101.1	0.3	nd	0.46	0.393	76
NGA #130	LAILG-NGA130-3	1/24/08	0.15	58.12	0.264	3.64	107.65	0.26	383	0.27	0.314	16
NGA #182	LAILG-NGA182-2	1/24/08	0.17[M4]	7.39	0.6085	1.91[M4]	14.22	0.76	218	0.81	0.825	64
NGA #168	LAILG-NGA168-4	1/25/08	0.38	65.9	3.053	**14.58**	117.44	3.07	**592**	5.45	2.363	1126.7
NGA # 19	LAILG-NGA 19-4	8/12/08	0.03[FB]	104.03	1.1877	**12.65**	107.33	1.75	834	1.86	15.494	213
NGA # 4	LAILG-NGA 4-3	8/13/08	0.68	350.11	11.5262	**200.18**	219.52	69.7[FD]	**2,238**	13.05	31.713	371[FD]
Duplicate	LAILG-NGA-DUP	8/13/08	0.71	397.47	9.0404	**212**	252.22	34.87[FD]	**2,350**	12	26.483	787[FD]
NGA # 31	LAILG-NGA 31-1	9/23/08	0.13[FD]	82.13[EB,FB]	1.562[H,FD]	**17.3**	134.93	1.472[H]	602	2.34[H]	1.813[H,FD]	162
Duplicate	LAILG-NGA-DUP	9/23/08	0.37[FD]	82.37[EB,FB]	2.629[H,FD]	**19.64**	136.19[M4]	1.84[H]	626	2.10[H]	0.883[H,M3]	127
NGA # 19	LAILG-NGA 19-5	11/26/08	0.96	115.72	1.507	**26.94**	126.35	1.356	748	4.69	4.884	995
NGA # 210	LAILG-NGA 210-1	11/26/08	0.11	155.92	1.892	0.92	**336.78**	2.185	**884**	3.23	3.722	542
NGA # 184	LAILG-NGA 184-1	11/26/08	0.46	31.44	0.609	3.12	17.92	0.643	206[FB]	0.88	1.3	129.5
Duplicate	LAILG-NGA-DUP	11/26/08	0.48	32.51	0.616	3.1	18.68	0.65	214[FB]	0.86	1.297	128
NGA # 124	LAILG-NGA 124-4	11/26/08	0.48	37.78	2.595	**28.36**	84.22	2.975	568	2.53	3.297	117
NGA # 31	LAILG-NGA 31-2	11/26/08	0.76	6.12	0.474	3.6	14.84	0.497	104[FB]	1.63	1.94	353
NGA # 130	LAILG-NGA 130-4	11/26/08	0.68	95.81	0.228	**9.17**	183.82	0.652	616	0.8	1.046	97
NGA # 150	LAILG-NGA 150-3	11/26/08	**32.2**	65.92	31.579	**114.76**	**258.65**	49.896	**2,446**	37.69	48.048	45.5
NGA # 25	LAILG-NGA 25-1	11/26/08	0.85	21.99	1.1712	5.31	51.95	1.338	166[FB]	1.38	1.641	168.5
NGA # 150	LAILG-NGA 150-4	12/15/08	15.75	47.27	26.0911	**268.53**	**125.27**[M4]	24.935[M4]	**1704**[EB]	2.94	24.75[M4]	333.5
NGA # 124	LAILG-NGA 124-5	12/15/08	1.68	26.51	24.4087	**40.43**	45.28	21.115	424[EB]	3.66	2.706	115.5
NGA # 189	LAILG-NGA 189-2	12/15/08	0.54	31.28	0.6795	**9.87**	41.27	0.813	220[EB]	0.99	1.261	111.3
NGA # 110	LAILG-NGA 110-2	12/15/08	0.31	28.59	1.186	**8.48**	50.87	1.469	328[EB]	1.6	1.868	93
NGA # 31	LAILG-NGA 31-3	12/15/08	4.32	36.98	3.0228	**12.14**	57.58	2.148	364[EB]	2.87	3.155	85.5
NGA # 184	LAILG-NGA 184-2	12/15/08	0.64	27.46	0.7339	4.41	33.57	0.502	240[EB]	2.16	2.94	1,079
NGA # 130	LAILG-NGA 130-5	12/15/08	0.52	46.43	0.4392	**11.81**	67.8	0.481	258[EB]	0.47	0.512	59.7
NGA # 178	LAILG-NGA 178-1	12/15/08	0.81	**85.04**	2.4077	**12.99**	**148.27**	2.648	**462**[EB]	2.64	2.934	72.7[FD]
Duplicate	LAILG-NGA-DUP	12/15/08	0.79	**102.32**	2.3169	**14.99**	**173.96**	2.604	**588**	2.62	2.944	49.3
NGA # 64	LAILG-NGA 64-2	12/15/08	1.15	12.38[EB]	0.4307	5.39	35.34	0.49	232[EB]	0.71	0.868	112
NGA # 168	LAILG-NGA 168-5	12/15/08	0.25	53.4	1.4434	**15.33**	130.75	1.568	492[EB]	2.24	2.386	236
NGA # 4	LAILG-NGA 4-4	12/15/08	0.52	8.67[EB]	1.0382	2.7	15.23	0.158	238[EB]	2.33	2.231	295
CWIL Limits			See Table X									
MDL			0.01	0.01	0.0075	0.01	0.01	0.016	0	0.01	0.016	0.5
RL			0.05	0.05	0.01	0.05	0.05	0.05	5	0.01	0.05	5

purposes; data was not deemed to be qualified as estimated by the QA Officer.

CWIL — Conditional waiver for irrigated lands, order #R4-2005-0080

EB — Estimated concentration, constituent detected at greater than 10% in equipment blank

FD — Estimated concentration. Field Duplicate RPD >25%.

FB — Estimated concentration, constituent detected at greater than 10% in field blank

H — Sample received and /or analyzed past the recommended holding time.

M3 — Detection of the analyte was difficult due to matrix interference.

M4 — Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.

Q1 — Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.

TABLE 9 cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
GENERAL CHEMISTRY
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry									
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS
NGA #130	NGA-#130-LAILG-1	8/6/07	2.5	58.34	2.2457	**50.44**	43.04	2.29	**1,170**	2.05	2.305	6.3
NGA #183	NGA-#183-LAILG-1	8/6/07	0.04[J]	**209.97**	0.2336	0.13	177.83	0.23	223	0.23	0.264	11
NGA #19	NGA-#19-LAILG-1	8/13/07	1	108.57	2.2882	**10.84**	118.85	2.68	**772**	4.62	5.09	568
NGA #124	NGA-#124-LAILG-1	8/13/07	9.8	69.23	3.5006	**72.48**	206.25	4.31	**1,002**	3.96	4.627	99.5
NGA #168	NGA-#168-LAILG-1	8/13/07	0.4	81.85	1.977	4.93	131.16	2.28	**664**	2.13	3.243	122
NGA BLANK	NGA LAILG-BLANK-1	8/13/07	0.04[J]	nd	nd	nd	nd	nd	32	nd	nd	nd
NGA FBLI	NGA-LAILG-FBLI	8/21/07	0.01[J]	nd	nd	0.016[J]	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA-#150-LAILG	9/25/07	**52.4**	95.9	26.84	**355.6**	87	22.5	**2279**	23	24	57
NGA #183	ILG-#183	9/26/07	13.5[B]	51.63	1.4457[B]	**11.35**[B]	57.38[B]	1.64[B]	317[B]	2.24[B]	0.858[B]	28.7[B]
NGA #183-DUP	ILGNGA-#Dup	9/26/07	29[B]	55.3	4.193[B]	**26.77**[B]	89.17[B]	4.29[B]	434[B]	5.66[B]	4.488[B]	20[B]
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	nd	nd	nd	5	nd	nd	nd
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168-2	ILGNGA-#168-2	9/28/07	2.2	172.52	1.582[C]	8.91	340.14[E]	2.15	**1,297**	3.51	5.379	504
NGA #168	NGA-#168-LAILG-3	11/30/07	0.48	101.43	2.1635	**30.81**	245.04[E]	2.67	**951**	3.13	3.548	nd
NGA #182	NGA #182-LAILG-1	12/7/07	0.4	**60.71**	1.7533	**19.85**	**159.87**[F]	1.52	**456**	1.41	1.554	20.3
NGA #182-DUP	NGA-Duplicate	12/7/07	0.42	59.2	1.8269	**19.71**	118.48[F]	1.51	**552**	1.56	1.523	20.7
NGA #4	NGA #4-LAILG-1	12/7/07	0.48	20.64	1.1355	4.03	20.39[F]	0.8	186	0.77	0.829	58
NGA #130	NGA #130-LAILG-2	12/7/07	0.3	**162.95**	1.0247	**26.16**	190[F]	0.91	**830**	0.74	0.94	51
NGA #150	NGA #150-LAILG-2	12/7/07	2.9	27.34	14.0243	**80.89**	56.59[F]	9.43	**780**	8.89	9.445	40
NGA #124	NGA-#124-LAILG-2	12/7/07	4.6	33.03	3.9247	**45.41**	59.24[F]	2.9	**550**	2.76	3.168	90
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	nd	nd	1.13	nd	nd	nd	nd	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	nd	nd	nd	6	nd	nd	nd
NGA #176	NGA-#176-LAILG-1	12/18/07	5.5	56.82	0.7145	3.85	293.12	0.54	**680**	12.21	3.447	6,168
NGA #183	LAILG-NGA#183-3	12/18/07	1.95	28.41	2.344	**11.37**	41.11	2.78	292	3.14	3.561	92
NGA #19	LAILG-NGA#19-2	12/18/07	1.4	162.66	11.2352	**86.7**	290.99	2.13	**1,292**	4.01	5.544	684
NGA #13	LAILG-NGA#13-1	12/18/07	1.6	5.46	0.2033	1.72	32.27	0.49	32	1.44	2.878	944
NGA #53	LAILG-NGA#53-1	12/18/07	0.7	4.72	0.2973	0.49	12.51	0.57	132	0.75	1.188	124
CWIL Limits			See Table X									
MDL			0.01	0.01	0.0075	0.01	0.01	0.016	0.1	0.01	0.016	0.5
RL			0.05	0.05	0.01	0.05	0.05	0.05	5	0.01	0.05	5

Concentrations are reported in milligrams per liter (mg/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080
B	**Estimated concentration, since RPD of duplicate is >25%**
C	Procedural blank Matrix Spike recovery out of limits
E	ESTIMATED CONCENTRATION, matrix spike does not meet acceptance criteria
F	Sulfate detected in lab blank, at 1.09 mg/L.
J	Estimated concentrations, results above MDL but less than RL

TABLE 10

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Chlorinated Pesticides																
			2,4'-DDD	2, 4'-DDE	2,4'-DDT	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	BHC-alpha	BHC-beta	BHC-delta	BHC-gamma	Chlordane-alpha	Chlordane-gamma	Dieldrin	Endosulfan Sulfate	Endosulphan-I	Endosulfan-II
NGA #4	LAILG-NGA4-5	3/21/11	nd	nd	nd	nd	**17**	**21**	nd	nd	nd	nd	nd	**13**	**18**	nd	nd	nd	nd
NGA #124	LAILG-NGA124-6	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	**33**[FD]	nd	nd	nd
NGA # 150	LAILG-NGA 150-5	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA19-6	3/23/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	**22**	nd	nd	nd
Equip Blank	LAILG-NGA-EB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-6	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
NGA #31	LAILG-NGA31-4	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
NGA #162	LAILG-NGA162-1	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
NGA #64	LAILG-NGA64-3	3/17/12	nd	nd	nd	nd	**28**[FD]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
Duplicate	LAILG-NGA-DUP	3/17/12	nd	nd	nd	nd	**51**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
Equip Blank	LAILG-NGA-EB	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
Field Blank	LAILG-NGA- FB	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[BSL]	nd
NGA #4	LAILG-NGA4-6	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #170	LAILG-NGA170-1	3/25/12	nd	nd	nd	nd	**9.6**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #176	LAILG-NGA176-2	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #210	LAILG-NGA210-2	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-EB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	**0.59**	nl	**0.84**	**0.59**	**0.59**	nl	nl	nl	nl	nl	nl	nl	**0.14**	nl	nl	nl
MDL			5.0	5.0	5.0	5.0	2.5	3.1	1.5	1.8	3.1	2.5	2.1	5.0	5.0	2.1	5.0	1.7	1.9
RL			5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Concentrations are reported in nanograms per liter (ng/L). **Results above CWIL Limits are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080
FD	Estimated concentration. Field Duplicate RPD >25%.
J	Estimated concentrations, results above MDL but less than RL
MDL	Method Detection Limits
RL	Reporting Limits
nd	not detected
nl	not listed

S4	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
SGC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
BS-L	The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect.

TABLE 10, cont.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Chlorinated Pesticides										
			Aroclor XXXX, Sum of	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Mirex	Toxaphene	trans-Nonachlor	Total Chlordane
NGA #4	LAILG-NGA#4-2	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	8.6	**39.6**
NGA #124	LAILG-NGA#124-3	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 150	LAILG-NGA 150-3	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA#19-2	3/23/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-EB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-6	3/17/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
NGA #31	LAILG-NGA31-4	3/17/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
NGA #162	LAILG-NGA162-1	3/17/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
NGA #64	LAILG-NGA64-3	3/17/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	3/17/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-EB	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	LAILG-NGA4-6	3/25/12	nd	nd	nd	nd[SGC]	nd	nd	nd	nd	nd	nd	nd
NGA #170	LAILG-NGA170-1	3/25/12	nd	nd	nd	nd[SGC]	nd	nd	nd	nd	nd	nd	nd
NGA #176	LAILG-NGA176-2	3/25/12	nd	nd	nd	nd[SGC]	nd	nd	nd	nd	nd	nd	nd
NGA #210	LAILG-NGA210-2	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	3/25/12	nd	nd	nd	nd[S4]	nd	nd	nd	nd	nd	nd	nd
Equip Blank	LAILG-NGA-EB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Field Blank	LAILG-NGA- FB	3/25/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	nl	nl	nl	nl	nl	nl	nl	**0.75**	nl	**0.59**
MDL			40	2.8	3.0	2.0	1.7	1.9	5.0	5.0	120	5.0	5.0
RL			100	5.0	5.0	20.0	5.0	5.0	5.0	5.0	500	5.0	5.0

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080	S4	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
MDL	Method Detection Limits		
J	Estimated concentrations, results above MDL but less than RL	SGC	Surrogate recovery outside of control limits due to a possible matrix effect . The data was accepted based on valid recovery of the remaining surrogate.
RL	Reporting Limits		
nd	not detected	BS-L	The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect.
nl	not listed		
FD	Estimated concentration. Field Duplicate RPD >25%.		

TABLE 10, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Chlorinated Pesticides																
			2,4'-DDD	2, 4'-DDE	2,4'-DDT	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	BHC-alpha	BHC-beta	BHC-delta	BHC-gamma	Chlordane-alpha	Chlordane-gamma	cis-Nonachlor	DCPA	Dicofol	Dieldrin
NGA #110	LAILG-NGA110-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #189	LAILG-NGA189-1	1/4/08	nd	nd	nd	nd	**22.5**	nd	nd	nd	nd	nd	nd	nd	6	nd	nd	nd	nd
NGA #19	LAILG-NGA19-3	1/5/08	nd	nd	nd	nd	nd	**5.6**	nd	nd	nd	nd	nd	2.3[J]	nd	nd	nd	nd	nd
NGA #124	LAILG-NGA124-3	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	LAILG-NGA183-4	1/5/08	nd	nd	nd	**12**	**26.5**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	LAILG-NGA4-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #53	LAILG-NGA53-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #64	LAILG-NGA64-1	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	LAILG-NGA130-3	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #182	LAILG-NGA182-2	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-4	1/25/08	nd	nd	nd	nd	**19.2**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 19	LAILG-NGA19-4	8/12/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.0[J]	2.1[J]	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-3	8/13/08	nd	nd[M4]	nd	nd	nd	nd	nd	nd	nd[M4]	nd	nd	9.2[Q2,FD]	9.8[M4,Q2,FD]	12.7[Q2,FD]	nd	485.7[Q1,Q2,FD]	nd[M4]
Duplicate	LAILG-NGA-DUP	8/13/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	29.8[FD]	41.3[FD]	44.3[FD]	nd	1064.3[FD]	nd
NGA # 31	LAILG-NGA 31-1	9/23/08	nd	nd	nd	nd	**13.5**	nd	nd	nd	nd	nd	nd	nd	7.6[FD]	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	9/23/08	nd	nd	nd	nd	**13.6**	nd	nd	nd	nd	nd	nd	nd	11.6[FD]	nd	nd	nd	nd
NGA # 19	LAILG-NGA 19-5	11/26/08	nd	nd	nd	nd	**24.7**[Q6]	nd	nd	nd	nd	nd	nd	7.5[J,Q3]	6.1	nd	nd	nd	nd
NGA # 210	LAILG-NGA 210-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-4	11/26/08	nd	nd	nd	nd	**19.3**	nd	nd	nd	nd	nd	nd	3.7[J]	2.8[J]	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-2	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	7.8	6.3	nd	nd	nd	nd
NGA # 130	LAILG-NGA 130-4	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	6.7[J]	nd	nd
NGA # 150	LAILG-NGA 150-3	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 25	LAILG-NGA 25-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	5.6	4.9[J]	1.0[J]	nd	nd	nd
NGA # 150	LAILG-NGA 150-4	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-5	12/15/08	nd	nd	nd	**10.4**	nd	nd	nd	nd	nd	nd	nd	5.5	4.2[J]	nd	6.3[J]	nd	nd
NGA # 189	LAILG-NGA 189-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 110	LAILG-NGA 110-2	12/15/08	nd	nd	nd	**6.2**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-3	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-2	12/15/08	nd	nd	nd	nd	**22**	nd	nd	nd	nd	nd	nd	nd	4.2[J]	nd	nd	nd	nd
NGA # 130	LAILG-NGA 130-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 178	LAILG-NGA 178-1	12/15/08	nd	nd[M4]	nd[M4]	nd[M4]	**25.3**[FD]	nd[M4]	nd	nd	nd[M4]	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	12/15/08	nd	nd	nd	nd	nd[FD]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 64	LAILG-NGA 64-2	12/15/08	nd	nd	nd	nd	**43.3**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 168	LAILG-NGA 168-5	12/15/08	nd	nd	nd	nd	**11.8**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-4	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	35.1	34.2	6.5	nd	nd	nd
CWIL Limits			nl	nl	nl	**0.59**	**0.59**	**0.83**	**0.13**	**3.9**	**14**	nl	**19**	**a)**	**a)**	**a)**	nl	nl	**0.14**
MDL			1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	50	1
RL			5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	100	5

Concentrations are reported in nanograms per liter (ng/L). **Results above CWIL Limits are presented in BOLD.** Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
FD Estimated concentration. Field Duplicate RPD >25%.
J Estimated concentrations, results above MDL but less than RL
MDL Method Detection Limits
RL Reporting Limits
nd not detected
nl not listed

M4 Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.

Q1 Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.

Q2 The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.

Q3 RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than ten times the MDL.

Q6 CRG's Quality Assurance Program Document allows for 5% of the target compounds greater than ten times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and cannot be attributed to a spe

TABLE 10, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Endosulfan Sulfate	Endosulphan-I	Endosulfan-II	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Kepone	Mirex	Oxychlordane	Perthane	Toxaphene	trans-Nonachlor	Total Chlordane
NGA #110	LAILG-NGA#110-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #189	LAILG-NGA#189-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	8.9	**14.9**
NGA #19	LAILG-NGA#19-2	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	14	**16.3**
NGA #124	LAILG-NGA#124-3	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	17.1	**17.1**
NGA #183	LAILG-NGA#183-4	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	LAILG-NGA#4-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #53	LAILG-NGA#53-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #64	LAILG-NGA#64-1	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	LAILG-NGA#130-3	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #182	LAILG-NGA#182-2	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA#168-4	1/25/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 19	LAILG-NGA19-4	8/12/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.3[J]	**4.4[J]**
NGA # 4	LAILG-NGA 4-3	8/13/08	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd	nd[M4]	nd	nd	nd	nd[M4]	nd[M4]	nd	7.1[M4,Q2,FD]	**38.8**
Duplicate	LAILG-NGA-DUP	8/13/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	27[FD]	**124.4**
NGA # 31	LAILG-NGA 31-1	9/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	7.6	**15.2**
Duplicate	LAILG-NGA-DUP	9/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	8.5	**20.1**
NGA # 19	LAILG-NGA 19-5	11/26/08	nd	nd	nd	nd	nd	339.4[Q3]	nd	nd	nd	nd	nd	nd	nd	nd	6.6[J,Q3]	**20.2[J]**
NGA # 210	LAILG-NGA 210-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-4	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.7[J]	**8.2[J]**
NGA # 31	LAILG-NGA 31-2	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.8[J]	**17.9[J]**
NGA # 130	LAILG-NGA 130-4	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 150	LAILG-NGA 150-3	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 25	LAILG-NGA 25-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd[Q6]	nd	nd	nd	nd	nd	4.7[J]	**16.2[J]**
NGA # 150	LAILG-NGA 150-4	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.9[J]	**13.6[J]**
NGA # 189	LAILG-NGA 189-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 110	LAILG-NGA 110-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-3	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	**4.2[J]**
NGA # 130	LAILG-NGA 130-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 178	LAILG-NGA 178-1	12/15/08	nd	nd[M4]	nd[M4]	nd	nd	nd	nd	nd	nd[M4]	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 64	LAILG-NGA 64-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	**666**	nd	nd
NGA # 168	LAILG-NGA 168-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-4	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	23.7	**99.5**
CWIL Limits			nl	**5.6**	**5.6**	**36**	nl	nl	**0.21**	**0.1**	nl	nl	nl	**a)**	nl	**25**	**a)**	**0.57**
MDL			1	1	1	1	1	1	1	1	1	1	1	1	5	10	1	1
RL			5	5	5	5	5	5	5	5	5	5	5	5	10	50	5	5

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. Footnotes in BOLD indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MDL Method Detection Limits
J Estimated concentrations, results above MDL but less than RL
RL Reporting Limits
nd not detected
nl not listed
FD Estimated concentration. Field Duplicate RPD >25%.

M4 Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.

Q2 The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.

Q3 RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than ten times the MDL.

Q6 CRG's Quality Assurance Program Document allows for 5% of the target compounds greater than ten times the MDL to be outside the specified acceptance limits for precision and/or accuracy. This is often due to random error and cannot be attributed to a spe

TABLE 10, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Chlorinated Pesticides															
			2,4'-DDD	2, 4'-DDE	2,4'-DDT	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	BHC-alpha	BHC-beta	BHC-delta	BHC-gamma	Chlordane-alpha	Chlordane-gamma	cis-Nonachlor	DCPA	Dicofol	Dieldrin
NGA #130	NGA-#130-LAILG-1	8/6/07	nd	nd	nd	**22.8**	**34.7**	**16.1**	nd	nd	nd	nd	nd	nd	nd	nd	nd	68.3[J]	nd
NGA #183	NGA-#183-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	NGA-#19-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-1	8/13/07	nd	nd	nd	**22.5**	**15.3**	**13.7**	nd	nd	nd	nd	nd	nd	nd	12.1	nd	nd	nd
NGA #168	NGA-#168-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA BLANK	NGA LAILG-BLANK-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA FBLI	NGA-LAILG-FBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA-#150-LAILG	9/25/07	nd	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	ILG-#183	9/26/07	25[B]	nd	31.8[B]	**90.3**[B]	**113.8**[B]	**51.1**[B,D]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183-DUP	ILGNGA-#Dup	9/26/07	nd[B]	nd	nd[B]	**64.5**[B]	**70.2**[B]	nd[B,D]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168-2	ILGNGA-#168-2	9/28/07	nd	nd	17.3	**16.7**	nd	**84**[D]	nd	nd	nd	nd	nd	nd	nd	nd	nd	52[J]	nd
NGA #168	NGA-#168-LAILG-3	11/30/07	nd	nd	nd	nd	**2.7**[J]	nd[C]	nd	nd	nd	nd	nd	1.4[J]	1.4[J]	1.1[J]	nd	nd	nd
NGA #182	NGA #182-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #182-DUP	NGA-Duplicate	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	NGA #4-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	NGA #130-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA #150-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	**35.2**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-2	12/7/07	nd	nd	nd	**6.0**	**22.1**	**9.3**	nd	nd	nd	nd	nd	1.1[J]	3.0[J]	nd	nd	63.7[J]	nd
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #176	LAILG-NGA#176-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	LAILG-NGA#183-3	12/18/07	36.8	5.7	20.6	**224.8**	**344.4**	**73.5**	nd	nd	nd	nd	nd	nd	nd	nd	nd	51.5[J]	nd
NGA #19	LAILG-NGA#19-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #13	LAILG-NGA#13-1	12/18/07	nd	nd	nd	nd	**32.7**	nd	nd	nd	nd	nd	nd	18	19.2	19.6	nd	nd	nd
NGA #53	LAILG-NGA#53-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	nl	nl	**0.59**	**0.59**	**0.83**	**0.13**	**3.9**	**14**	nl	**19**	**a)**	**a)**	**a)**	nl	nl	**0.14**
MDL			1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	50	1
RL			5	5	5	5	5	5	5	5	5	5	5	5	5	5	10	100	5

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080	MDL	Method Detection Limits
A	Component of total chlordane, see total chlordane for CWIL limitations	RL	Reporting Limits
B	**Estimated concentration, RPD of duplicate sample >25%**	nd	not detected
C	Procedural blank Matrix Spike recovery out of limits	nl	not listed
D	Procedural blank Matrix Spike Duplicate RPD out of limits	na	not analyzed
J	Estimated concentrations, results above MDL but less than RL		

TABLE 10, cont

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
CHLORINATED PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Endosulfan Sulfate	Endosulphan-I	Endosulfan-II	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Kepone	Mirex	Oxychlordane	Perthane	Toxaphene	trans-Nonachlor	Total Chlordane
NGA #130	NGA-#130-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd	nd	nd	nd	nd
NGA #183	NGA-#183-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd	nd	nd	nd	nd
NGA #19	NGA-#19-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd	nd	nd	21.9	**34**
NGA #168	NGA-#168-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd	nd	nd	nd	nd
NGA BLANK	NGA LAILG-BLANK-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA FBLI	NGA-LAILG-FBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA-#150-LAILG	9/25/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd[D]	nd	nd	nd	nd
NGA #183	ILG-#183	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd[D]	nd	nd	nd	nd
NGA #183-DUP	ILGNGA-#Dup	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd[D]	nd	nd	nd	nd
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168-2	ILGNGA-#168-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	na	nd	nd[D]	nd	nd	nd	nd
NGA #168	NGA-#168-LAILG-3	11/30/07	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	nd	1.7[J]	**5.6**[I]
NGA #182	NGA #182-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #182-DUP	NGA-Duplicate	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	NGA #4-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	NGA #130-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA #150-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	7.3	**11.4**
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #176	LAILG-NGA#176-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	nd	nd
NGA #183	LAILG-NGA#183-3	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA#19-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	2.4[J]	**2.4**[J]
NGA #13	LAILG-NGA#13-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	54.1	**110.9**
NGA #53	LAILG-NGA#53-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd[C]	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	**5.6**	**5.6**	**36**	nl	nl	**0.21**	**0.1**	nl	nl	nl	**a)**	nl	**25**	**a)**	**0.57**
MDL			1	1	1	1	1	1	1	1	1	1	1	1	5	10	1	1
RL			5	5	5	5	5	5	5	5	5	5	5	5	10	50	5	5

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080
A	Component of total chlordane, see total chlordane for CWIL limitations
B	**Estimated concentration, RPD of duplicate sample >25%**
C	Procedural blank Matrix Spike recovery out of limits
D	Procedural blank Matrix Spike Duplicate RPD out of limits
J	Estimated concentrations, results above MDL but less than RL
MDL	Method Detection Limits
RL	Reporting Limits
nd	not detected
nl	not listed
na	not analyzed

TABLE 11

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Organophosphorus Pesticides																							Sample Notes
			Azinphos methyl	Bolstar	Chlorpyrifos	Coumaphos	Demeton-o	Demeton-s	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethoprop	Ethyl parathion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl Parathion	Mevinphos	Naled	Phorate	Ronnel	Stirophos	Tokuthion	Trichloronate	
NGA #4	LAILG-NGA4-5	3/21/11	nd	nd	**11000**[E1]	nd	nd[Q-02]	nd[Q-02]	**1000**[E1]	nd	nd[MS-05]	nd[Q-02]	nd	nd	nd	nd	**7300**[E1]	nd	nd	nd	nd	nd	nd	nd	nd	nd	S4
NGA #124	LAILG-NGA124-6	3/21/11	nd	nd	10	nd	nd[Q-02]	nd[Q-02]	nd	nd	nd[MS-05]	nd[Q-02]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
NGA # 150	LAILG-NGA 150-5	3/21/11	nd	nd	**33**	nd	nd[Q-02]	nd[Q-02]	nd	nd	nd[MS-05]	nd[Q-02]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
NGA #19	LAILG-NGA19-6	3/23/11	nd[MS-05,BS-L]	nd[MS-05]	25	nd	nd	nd	nd	nd	nd[MS-05]	nd[BS-03]	nd	nd	nd[MS-05]	nd[BS-03]	nd	nd[Q-08]	nd	nd	nd[MS-05]	nd	nd	nd	nd	nd	
Duplicate	LAILG-NGA-DUP	3/21/11	nd	nd	11	nd	nd[Q-02]	nd[Q-02]	nd	nd	nd[MS-05]	nd[Q-02]	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Equip Blank	LAILG-NGA-EB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Field Blank	LAILG-NGA- FB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
NGA #168	LAILG-NGA168-6	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
NGA #31	LAILG-NGA31-4	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
NGA #162	LAILG-NGA162-1	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
NGA #64	LAILG-NGA64-3	3/17/12	nd[BS-03]	nd	nd	nd	nd	nd	nd	nd	nd[MS-05]	nd	nd	nd	nd[MS-05]	nd	nd	nd	nd	nd	nd	nd	nd	nd[BS-03]	nd	nd	
Duplicate	LAILG-NGA-DUP	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
Equip Blank	LAILG-NGA-EB	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
Field Blank	LAILG-NGA- FB	3/17/12	nd[BS-03]	nd	nd	nd[Q-08,A-01]	nd	nd	nd	nd	nd	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd	nd[Q-08]	nd[Q-08]	nd	nd[Q-08]	nd	nd	nd	nd	nd	
NGA #4	LAILG-NGA4-6	3/25/12	nd[BS-03]	nd	**44,000**	nd[BS-03]	nd[BS-03]	nd[BS-03]	nd[Q-12]	nd	nd[MS-05]	nd	nd	nd	nd[Q-08,BS-03]	nd	**2,100**[Q-08,A-01a]	nd[Q-08]	nd[BS-03]	nd	nd[BS-03]	nd	nd	nd[BS-03]	nd	nd	
NGA #170	LAILG-NGA170-1	3/25/12	nd[MS-05,BS-L]	nd	nd	nd[BS-03]	nd	nd	nd	nd	nd[MS-05]	nd	nd	nd[MS-05]	nd[Q-08]	nd	nd	nd[Q-08]	nd[MS-05]	nd	nd[Q-08,A-01]	nd	nd	14[BS-03]	nd	nd	
NGA #176	LAILG-NGA176-2	3/25/12	nd[MS-05,BS-L]	nd	nd	nd[BS-03]	nd	nd	nd	nd	nd[MS-05]	nd	nd	nd[MS-05]	nd[Q-08]	nd	nd	nd[Q-08]	nd[MS-05]	nd	nd[Q-08,A-01]	nd	nd	nd[BS-03]	nd	nd	
NGA #210	LAILG-NGA210-2	3/25/12	nd[MS-05,BS-L]	nd	nd	nd[BS-03]	nd	nd	nd	nd	nd[MS-05]	nd	nd	nd[MS-05]	nd[Q-08]	nd	41	nd[Q-08]	nd[MS-05]	nd	nd[Q-08,A-01]	nd	nd	nd[BS-03]	nd	nd	
Duplicate	LAILG-NGA-DUP	3/25/12	nd[BS-03]	nd	**42,000**	nd[BS-03]	nd[BS-03]	nd[BS-03]	nd[Q-12]	nd	nd[MS-05]	nd	nd	nd	nd[Q-08,BS-03]	nd	**2,000**[Q-08,A-01a]	nd[Q-08]	nd[BS-03]	nd	nd[BS-03]	nd	nd	nd[BS-03]	nd	nd	
Equip Blank	LAILG-NGA-EB	3/25/12	nd[BS-03]	nd	nd	nd[BS-03]	nd[BS-03]	nd[BS-03]	nd[Q-12]	nd	nd[MS-05]	nd	nd	nd	nd[Q-08,BS-03]	nd	nd[Q-08,A-01a]	nd[Q-08]	nd[BS-03]	nd	nd[BS-03]	nd	nd	nd[BS-03]	nd	nd	
Field Blank	LAILG-NGA- FB	3/25/12	nd[BS-03]	nd	nd	nd[BS-03]	nd[BS-03]	nd[BS-03]	nd[Q-12]	nd	nd[MS-05]	nd	nd	nd	nd[Q-08,BS-03]	nd	nd[Q-08,A-01a]	nd[Q-08]	nd[BS-03]	nd	nd[BS-03]	nd	nd	nd[BS-03]	nd	nd	
CWIL Limits			nl	nl	**25**	nl	nl	nl	**100**	nl	nl[(1)]	nl[(1)]	nl[(1)]	nl	nl	nl	nl[(1)]	nl	nl[(1)]	nl	nl	nl	nl	nl[(1)]	nl	nl	
MDL			5.5	4.6	6.9	5.1	10	10	5.2	2.9	6.2	10	6.7	5.4	2.9	3.8	7.6	5.8	6.3	4.2	7.6	3.0	4.1	3.1	7.8	6.7	
RL			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. **Footnotes in BOLD indicate estimated concentration.** All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MDL Method Detection Limits
RL Reporting Limits
FD Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected
(1) Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 7

E1 The concentration indicated for this analyte is an estimated value above the calibration range.
S4 The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect
Q-08 High bias in the QC sample does not affect sample result since analyte was not detected or below the reporting limit
A-01 High bias in MS and MSD.However, ll-ccv has an acceptable recovery.The batch was accepted since all samples were ND for this analyte
A-01a Low recovery in BS and high recoveries in both MS/MSD.However,LL-ccv has an acceptable recovery.The batch was accepted since samples were either ND or yielded very high results.
Q-12 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
Q-02 Low recovery of this analyte in the QC sample. The analysis of the low level standard produced acceptable recovery indicating that the sample result might be accurately reported as non-detect.
MS-05 The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BS-L The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect
BS-03 The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria

TABLE 11, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Organophosphorus Pesticides																	
			Bolstar	Chlorpyrifos	Demeton	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethoprop	Fenchlorphos	Fensulfothion	Fenthion	Malathion	Merphos	Methyl Parathion	Mevinphos	Phorate	Tetrachlorvinphos	Tokuthion	Trichloronate
NGA #110	LAILG-NGA110-1	1/4/08	nd	**88.5**	nd	**534.8**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #189	LAILG-NGA189-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA19-3	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	LAILG-NGA124-3	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	LAILG-NGA183-4	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	LAILG-NGA4-2	1/23/08	nd	**153.8**	nd	**2,212.1**	nd	nd	nd	nd	nd	nd	nd	**15,453.2**	nd	nd	nd	nd	nd	nd	nd
NGA #53	LAILG-NGA53-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #64	LAILG-NGA64-1	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	LAILG-NGA130-3	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #182	LAILG-NGA182-2	1/24/08	nd	nd	nd	nd	nd	13.3	nd	nd	nd	nd	nd	19.9	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-4	1/25/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 19	LAILG-NGA19-4	8/12/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-3	8/13/08	nd[M4]	nd[M4]	nd[M4]	**6,058.9**[Q1,Q2,FD]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	**1,148,630**[Q1]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]	nd[M4]
Duplicate	LAILG-NGA-DUP	8/13/08	nd	nd	nd	**13586.8**[FD]	nd	nd	nd	nd	nd	nd	nd	**1,117,145**	nd	nd	nd	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-1	9/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	9/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 19	LAILG-NGA 19-5	11/26/08	nd	**130.1**	nd	32.6	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 210	LAILG-NGA 210-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	56.4	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Duplicate	LAILG-NGA-DUP	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-4	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-2	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 130	LAILG-NGA 130-4	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 150	LAILG-NGA 150-3	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 25	LAILG-NGA 25-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 150	LAILG-NGA 150-4	12/15/08	nd	**90.2**	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 124	LAILG-NGA 124-5	12/15/08	nd	21	nd	98.5	nd	nd	nd	nd	nd	nd	nd	**85.3**	nd	nd	nd	nd	nd	nd	nd
NGA # 189	LAILG-NGA 189-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	26.9	nd	nd	nd	nd	nd	nd	nd
NGA # 110	LAILG-NGA 110-2	12/15/08	nd	nd	nd	79.8	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-3	12/15/08	nd	**44.5**	nd	nd	nd	nd	nd	nd	nd	nd	nd	**3,433.9**	nd	nd	nd	nd	nd	nd	nd
NGA # 184	LAILG-NGA 184-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 130	LAILG-NGA 130-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	**85.2**	nd	nd	nd	nd	nd	nd	nd
NGA # 178	LAILG-NGA 178-1	12/15/08	nd	nd	nd	nd	nd	nd	nd[M4]	nd	nd	nd[M4]	nd	nd	nd	nd	nd	nd	nd[M4]	nd	nd
Duplicate	LAILG-NGA-DUP	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 64	LAILG-NGA 64-2	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 168	LAILG-NGA 168-5	12/15/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	38.9	nd	nd	nd	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-4	12/15/08	nd	**590.9**	nd	**859**	nd	nd	nd	nd	nd	nd	nd	**102,357.2**	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	**25**	nl	**100**	nl	nl[(1)]	nl[(1)]	nl[(1)]	nl	nl	nl	nl[(1)]	nl	nl[(1)]	nl	nl[(1)]	nl	nl	nl
MDL			2	1	1	2	3	3	1	1	2	1	2	3	1	1	8	6	2	3	1
RL			4	2	2	4	6	6	2	2	4	2	4	6	2	2	16	12	4	6	2

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits or ALB guidelines are presented in BOLD. **Footnotes in BOLD indicate estimated concentration.** All other footnotes are for reference purposes; data was not deemed to be

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
MDL Method Detection Limits
RL Reporting Limits
FD Estimated concentration. Field Duplicate RPD >25%.
nl not listed
nd not detected
(1) Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 7

M4 Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.

Q1 Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.

Q2 The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.

TABLE 11, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
ORGANOPHOSPHORUS PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Organophosphorus Pesticides																	
			Bolstar	Chlorpyrifos	Demeton	Diazinon	Dichlorvos	Dimethoate	Disulfoton	Ethoprop	Fenchlorphos	Fensulfothion	Fenthion	Malathion	Merphos	Methyl Parathion	Mevinphos	Phorate	Tetrachlorvinphos	Tokuthion	Trichloronate
NGA #130	NGA-#130-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	NGA-#183-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	NGA-#19-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	NGA-#168-LAILG-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA BLANK	GA LAILG-BLANK-	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA FBLI	NGA-LAILG-FBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA-#150-LAILG	9/25/07	nd	nd	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd[D]	nd	nd	nd
NGA #183	ILG-#183	9/26/07	nd	nd	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd[D]	nd	nd	nd
GA #183-DUI	ILGNGA-#Dup	9/26/07	nd	nd	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd[D]	nd	nd	nd
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168-2	ILGNGA-#168-2	9/28/07	nd	nd	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd	nd[D]	nd	nd	nd	nd[D]	nd	nd	nd
NGA #168	NGA-#168-LAILG-3	11/30/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	8.9	nd	nd	nd	nd	nd	nd	nd
NGA #182	NGA #182-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
GA #182-DUI	NGA-Duplicate	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	NGA #4-LAILG-1	12/7/07	nd	**1,122.6**	nd	**175.2**	11.3	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	NGA #130-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA #150-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	NGA-#124-LAILG-2	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #176	NGA-#176-LAILG-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	LAILG-NGA#183-3	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA#19-2	12/18/07	nd	nd	nd	15	nd	nd	nd	nd	nd	nd	nd	2,291.3	nd	nd	nd	nd	nd	nd	nd
NGA #13	LAILG-NGA#13-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #53	LAILG-NGA#53-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
CWIL Limits			nl	**25**	nl	**100**	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl
MDL			2	1	1	2	3	3	1	1	2	1	2	3	1	1	8	6	2	3	1
RL			4	2	2	4	6	6	2	2	4	2	4	6	2	2	16	12	4	6	2

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
D Procedural blank Matrix Spike Duplicate RPD out of limits
nl not listed

TABLE 12

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Pyrethroid Pesticides														Sample Notes
			Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Deltamethrin	Dichloran	Esfenvalerate	Fenvalerate	L-Cyhalothrin	Pendimethalin	Permethrin	Prallethrin	Sumithrin	Telfluthrin	
NGA #4	LAILG-NGA4-5	3/21/11	nd	22	nd	nd	nd	nd	nd	nd	nd	3.3	**1600**[E1]	nd	nd	nd	S4
NGA #124	LAILG-NGA124-6	3/21/11	nd	88	nd	78[FD]	nd	nd	nd	nd	nd	3.8	nd	nd	nd	nd	
NGA # 150	LAILG-NGA 150-5	3/21/11	nd	480[E1]	nd	nd	nd	nd	nd	nd	nd	nd	**48**	nd	nd	nd	
NGA #19	LAILG-NGA19-6	3/23/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	29	nd	nd	nd	nd	
Duplicate	LAILG-NGA-DUP	3/21/11	nd	74	nd	57	nd	nd	nd	nd	nd	3.7	nd	nd	nd	nd	
Equip Blank	LAILG-NGA-EB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
Field Blank	LAILG-NGA- FB	3/21/11	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	
NGA #168	LAILG-NGA168-6	3/17/12	nd	54	nd	nd	nd	nd[BS-03]	nd	nd	nd	18	nd	nd	nd	nd	S4
NGA #31	LAILG-NGA31-4	3/17/12	nd	2.9	nd	nd	nd	nd[BS-03]	nd	nd	nd	33	nd	nd	nd	nd	S4
NGA #162	LAILG-NGA162-1	3/17/12	nd	11	nd	nd	230	nd[BS-03]	nd	nd	nd	23	nd	nd	nd	nd	S4
NGA #64	LAILG-NGA64-3	3/17/12	nd	nd	nd	nd	nd	nd[BS-03]	nd	nd	nd	22	nd	nd	nd	nd	S4
Duplicate	LAILG-NGA-DUP	3/17/12	nd	nd	nd	nd	nd	nd[BS-03]	nd	nd	nd	20	nd	nd	nd	nd	S4
Equip Blank	LAILG-NGA-EB	3/17/12	nd	nd	nd	nd	nd	nd[BS-03]	nd	nd	nd	nd	nd	nd	nd	nd	
Field Blank	LAILG-NGA- FB	3/17/12	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	S4
NGA #4	LAILG-NGA4-6	3/25/12	nd[BS-03]	9.7	nd	nd	nd	nd	nd	nd	nd	nd[FD,BS-03]	**100**[FD]	nd	nd	nd[BS-03]	S4
NGA #170	LAILG-NGA170-1	3/25/12	nd[BS-03]	5.8	nd	nd	nd	nd	nd	nd	nd	11[BS-03]	nd[BS-03]	nd	nd	nd[BS-03]	S4
NGA #176	LAILG-NGA176-2	3/25/12	nd[BS-03]	270	nd	nd	nd	nd	nd	nd	nd	35[BS-03]	nd[BS-03]	nd	nd	nd[BS-03]	S4
NGA #210	LAILG-NGA210-2	3/25/12	nd[BS-03]	nd	nd	nd	nd	80	nd	nd	nd	2.7[BS-03]	nd[BS-03]	nd	nd	nd[BS-03]	S4
Duplicate	LAILG-NGA-DUP	3/25/12	nd[BS-03]	12	nd	nd	nd	nd	nd	nd	nd	47[BS-03]	**130**[BS-03]	nd	nd	nd[BS-03]	S4
Equip Blank	LAILG-NGA-EB	3/25/12	nd[BS-03]	nd	nd	nd	nd	nd	nd	nd	nd	nd[BS-03]	nd[BS-03]	nd	nd	nd[BS-03]	S4
Field Blank	LAILG-NGA- FB	3/25/12	nd[BS-03]	nd	nd	nd	nd	nd	nd	nd	nd	nd[BS-03]	nd[BS-03]	40	nd	nd[BS-03]	S4
CWIL Limits			nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl [(1)]	nl	nl	nl	
MDL			0.85	0.79	0.83	0.66	1.9	0.80	0.98	0.98	1.2	0.50	5.0	0.92	2.4	0.93	
RL			2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	2.0	10	2.0	

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. **Footnotes in BOLD indicate estimated concentration.** All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080
FD	Estimated concentration. Field Duplicate RPD >25%.
nl	not listed
nd	not detected
(1)	Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 8.

E1	The concentration indicated for this analyte is an estimated value above the calibration range.
S4	The surrogate recovery for this sample is outside of established control limits due to possible sample matrix effect.
Q-12	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on the percent recoveries and/or other acceptable QC data.
BS-L	The recovery of this analyte in the BS/LCS was below the control limit. Sample result is suspect.
BS-03	The recovery of this analyte in the BS/LCS was outside the control limits. The sample result was accepted based on another acceptable BS/LCS and/or MS and MSD that meet BS criteria.
A-01a	Low recovery in BS and high recoveries in both MS/MSD.However,LL-ccv has an acceptable recovery.The batch was accepted since samples were either ND or yielded very high results.

TABLE 12, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Pyrethroid Pesticides												
			Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Danitol	Deltamethrin	Esfenvalerate	Fenvalerate	Fluvalinate	L-Cyhalothrin	Permethrin	Prallethrin	Resmethrin
NGA #110	LAILG-NGA110-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #189	LAILG-NGA189-1	1/4/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	LAILG-NGA19-3	1/5/08	nd	nd	nd	nd	6.8	nd	nd	nd	nd	nd	nd	nd	nd
NGA #124	LAILG-NGA124-3	1/5/08	nd	581.5	38	nd	1,207.20	66.4	nd	nd	5.5	nd	nd	nd	nd
NGA #183	LAILG-NGA183-4	1/5/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #4	LAILG-NGA4-2	1/23/08	nd	nd	15.8	nd	1,178.40	157.1	nd	nd	13.6	24.5	nd	nd	nd
NGA #53	LAILG-NGA53-2	1/23/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #64	LAILG-NGA64-1	1/23/08	nd	30.2	15.1	nd	2.1	nd	nd	nd	nd	nd	nd	nd	nd
NGA #130	LAILG-NGA130-3	1/24/08	nd	143.4	4.2	nd	33.2	nd	nd	nd	3.8	nd	nd	nd	nd
NGA #182	LAILG-NGA182-2	1/24/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	LAILG-NGA168-4	1/25/08	nd	187.9	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA # 19	LAILG-NGA19-4	8/12/08	nd	nd	nd	nd	82	nd	nd	nd	9.8	nd	nd	nd	nd
NGA # 4	LAILG-NGA 4-3	8/13/08	nd[M4]	43.8[M4,Q2,FD]	nd[FD]	nd[M4]	23,704.6[Q1,Q2,FD]	147.3[M4,Q2,FD]	nd[M4]	nd	2,488.1[Q1,FD]	10.6[Q2,FD]	**359.3**[Q1,Q2,FD]	nd[M4]	nd[M4]
Duplicate	LAILG-NGA-DUP	8/13/08	nd	306.5[FD]	4.9[FD]	nd	77368.5[FD]	306.9[FD]	nd	nd	1519.6[FD]	37.5[FD]	**1,376.0**[FD]	nd	nd
NGA # 31	LAILG-NGA 31-1	9/23/08	nd	nd	4.3	nd	71.9	nd	nd	nd	nd	2.4[EB]	nd	nd	nd
Duplicate	LAILG-NGA-DUP	9/23/08	nd	nd	4.9	nd	63.6	nd	nd	nd	nd	2.6[EB]	nd	nd	nd
NGA # 19	LAILG-NGA 19-5	11/26/08	nd[M4]	34.9[M4]	34.4[M4]	nd[M4]	1,813.4[M4]	nd[M4]	3.3[M4,Q3]	3.3[J,M4,Q3,EB]	274.4[M4]	10.2[M4,FB]	**62.3**[M4,Q3]	nd	nd[M4]
NGA # 210	LAILG-NGA 210-1	11/26/08	nd	134.5	15.6	23.3	92.9	nd	1.8[J]	4.1[EB]	nd	7.6[FB]	nd	nd	nd
NGA # 184	LAILG-NGA 184-1	11/26/08	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.1[FB]	nd	nd	nd
Duplicate	LAILG-NGA-DUP	11/26/08	nd	nd	nd	nd	nd	nd	2.0	0.9[EB]	nd	6.0[FB]	nd	nd	nd
NGA # 124	LAILG-NGA 124-4	11/26/08	nd	4,420.1	650.2	nd	121.6	26.6	0.9[J]	1.0[J,EB]	2,309.8	5.9[FB]	nd	nd	nd
NGA # 31	LAILG-NGA 31-2	11/26/08	nd	33.9	23.6	nd	382.1	nd	nd	4.3[EB]	nd	16.3[FB]	nd	nd	nd
NGA # 130	LAILG-NGA 130-4	11/26/08	nd	407.5	nd	nd	180.5	nd	nd	1.5[J,EB]	70.0	2.1[FB]	**1,096.2**	nd	nd
NGA # 150	LAILG-NGA 150-3	11/26/08	nd	8,031.3	nd	nd	nd	nd	3.2	6.4	2,238.7	10.9[FB]	**780.0**	nd	nd
NGA # 25	LAILG-NGA 25-1	11/26/08	nd	nd	30.1	12.3	0.7[J,EB]	nd	nd	nd	nd	89.6[FB]	nd	nd	nd
NGA # 150	LAILG-NGA 150-4	12/15/08	nd	82,902.4	66.3	51.9	34.1	nd	8.4	9.3	6,642.4	nd	**2,116.6**	nd	nd
NGA # 124	LAILG-NGA 124-5	12/15/08	nd	17,280.2	220.1	nd	346.4	95.7	0.5[J]	1.4[J,EB]	1,234.8	3.9[EB,FB]	**98.3**	nd	nd
NGA # 189	LAILG-NGA 189-2	12/15/08	nd	nd	nd	nd	0.7[J]	nd	nd	1.0[J,EB]	4.4[EB,FB]	nd	nd	nd	nd
NGA # 110	LAILG-NGA 110-2	12/15/08	nd	55.2	nd	nd	nd	nd	nd	0.5[J,EB]	11.5[EB,FB]	nd	nd	nd	nd
NGA # 31	LAILG-NGA 31-3	12/15/08	nd	nd	nd	nd	48.5	nd	nd	0.9[J,EB]	nd	3.2[EB,FB]	nd	nd	nd
NGA # 184	LAILG-NGA 184-2	12/15/08	nd	26.2	nd	nd	nd	nd	0.5[J]	2.0[EB]	nd	2.0[EB,FB]	nd	nd	nd
NGA # 130	LAILG-NGA 130-5	12/15/08	nd	101.8	nd	nd	35.6	nd	nd	nd	28.8	nd	**210.7**	nd	nd
NGA # 178	LAILG-NGA 178-1	12/15/08	nd	nd[Q3]	nd	nd	1.4[J]	nd[Q3]	0.8[J]	1.0[J,EB]	nd[Q3]	1.7[J,EB,FB]	nd	nd[M4]	nd[M4]
Duplicate	LAILG-NGA-DUP	12/15/08	nd	nd	nd	nd	1.1[J]	nd	0.6 [J]	1[J,EB]	3.0[EB,FB]	nd	nd	nd	nd
NGA # 64	LAILG-NGA 64-2	12/15/08	nd	81.3	nd	nd	26.9	nd	1.8[J]	nd	nd	nd	nd	nd	nd
NGA # 168	LAILG-NGA 168-5	12/15/08	nd	1,333.2	31.9	nd	0.8[J]	nd	nd	nd	9.3[EB,FB]	0.7[J,EB,FB]	nd	nd	nd
NGA # 4	LAILG-NGA 4-4	12/15/08	nd	311.5	133.6	133.6	93,137.5	452.3	3.6	nd	1,547	44.5	**824.4**	nd	nd
CWIL Limits			nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl [(1)]	nl	nl
MDL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	5	0.5	5
RL			2	2	2	2	2	2	2	2	2.0	2	25	2	25

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in BOLD. **Footnotes in BOLD indicate estimated concentration.** All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL	Conditional waiver for irrigated lands, order #R4-2005-0080
EB	Estimated concentration, constituent detected at greater than 10% in equipment blank
FD	Estimated concentration. Field Duplicate RPD >25%.
nl	not listed
nd	not detected
J	Estimated concentration, results above MDL but below RL
(1)	Although no discharge limits were set in the CWIL, the US EPA has set an aquatic life benchmark for this constituent. See Table 7.

M4	Spike or surrogate compound recovery was out of control due to matrix interference. The associated method blank spike or surrogate compound was in control and therefore the sample data was reported without further clarification.
Q1	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration.
Q2	The sample RPD was out of control. Sample is heterogeneous and sample homogeneity could not be readily achieved using routine laboratory practices.
Q3	RPD values are not accurate and not applicable because the results for R1 and/or R2 are lower than ten times the MDL.

TABLE 12, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
PYRETHROID PESTICIDES
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Pyrethroid Pesticides												
			Allethrin	Bifenthrin	Cyfluthrin	Cypermethrin	Danitol	Deltamethrin	Esfenvalerate	Fenvalerate	Fluvalinate	L-Cyhalothrin	Permethrin	Prallethrin	Resmethrin
NGA #130	NGA-#130-LAILG-1	8/6/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183	NGA-#183-LAILG-1	8/6/07	nd	21^{J}	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #19	NGA-#19-LAILG-1	8/13/07	nd	13.7^{J}	24.2^{J}	nd	465.5	nd	nd	nd	5^{J}	nd	444.9	nd	nd
NGA #124	NGA-#124-LAILG-1	8/13/07	nd	62.2	nd	nd	74.7	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	NGA-#168-LAILG-1	8/13/07	nd	1348.2	19.8^{J}	nd	nd	nd	nd	nd	nd	11.1^{J}	nd	nd	nd
NGA BLANK	NGA LAILG-BLANK-1	8/13/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA FBLI	NGA-LAILG-FBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA EQBLI	NGA-LAILG-EQBLI	8/21/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #150	NGA-#150-LAILG	9/25/07	nd	19,426.6	153.4	nd	nd	nd	nd	nd	515.2	nd	5,208.8	nd	nd
NGA #183	ILG-#183	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #183-DUP	ILGNGA-#Dup	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #EQUIP	ILGNGA-#Equip	9/26/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	ILGNGA-#FIELD-2	9/28/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168-2	ILGNGA-#168-2	9/28/07	nd	964	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #168	NGA-#168-LAILG-3	11/30/07	nd	nd	1.4^{J}	1.6^{J}	463.1	nd	nd	nd	nd	nd	nd	nd	na
NGA #182	NGA #182-LAILG-1	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	na
NGA #182-DUP	NGA-Duplicate	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	na
NGA #4	NGA #4-LAILG-1	12/7/07	nd	10.7	30.6	nd	1,940.5	69	nd	nd	1.6^{J}	55.1	nd	nd	na
NGA #130	NGA #130-LAILG-2	12/7/07	nd	944.6	14.2	nd	73.5	nd	nd	nd	33.5	nd	327.3	nd	na
NGA #150	NGA #150-LAILG-2	12/7/07	nd	1,566.7	nd	nd	nd	nd	nd	nd	17.9	nd	237.8	nd	na
NGA #124	NGA-#124-LAILG-2	12/7/07	nd	3,083.4	183.8	nd	150.5	180.3	nd	nd	32.3	3.1	70.9	nd	na
NGA #EQUIP	NGA-equip blank	12/7/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #FIELD	Field Blank-2	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
NGA #176	NGA-#176-LAILG-1	12/18/07	nd	870.5	nd	nd	3.4	nd	nd	nd	nd	nd	nd	nd	na
NGA #183	LAILG-NGA#183-3	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	na
NGA #19	LAILG-NGA#19-2	12/18/07	nd	nd	11.5	nd	449.5	nd	nd	nd	6.6	nd	1,346.4	nd	na
NGA #13	LAILG-NGA#13-1	12/18/07	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	na
NGA #53	LAILG-NGA#53-1	12/18/07	nd	8	nd	nd	nd	nd	nd	nd	nd	nd	nd	3.5	na
CWIL Limits			nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl	nl
MDL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
RL			2	2	2	2	2	2	2	2	2	2	2	2	2

Concentrations are reported in nanograms per liter (ng/L). Results above CWIL Limits are presented in **BOLD**. Footnotes in **BOLD** indicate estimated concentration. All other footnotes are for reference purposes; data was not deemed to be qualified as estim

CWIL Conditional waiver for irrigated lands, order #R4-2005-0080
na not analyzed
J Estimated concentration, results above MDL but below RL

TABLE 13

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Ceriodaphnia		Fathead Minnow		Selenastrum	TIE	
			Survival	Reproduction	Survival	Growth	Growth	Date	Result
NGA #4	LAILG-NGA4-5	3/21/11	**0.00%**	**Y**	**15.00%**	**Y**	**Y**	3/27/12	Non-polar organics and organophosphates
NGA #124	LAILG-NGA124-6	3/21/11	90.00%	N	100.00%	N	N		
NGA # 150	LAILG-NGA 150-5	3/21/11	100.00%	N	100.00%	N	**Y**	3/27/12	Organophosphates
NGA #19	LAILG-NGA19-6	3/23/11	100.00%	**Y**	**0.00%**	**Y**	**Y**	3/27/12	TIE was initiated, did not show an observed effect
NGA #168	LAILG-NGA168-6	3/17/12	100.00%	N	95.00%	N	N		
NGA #31	LAILG-NGA31-4	3/17/12	70.00%	**Y**	90.00%	N	**Y**	3/24/12	Non-polar organic compounds and metals
NGA #162	LAILG-NGA162-1	3/17/12	100.00%	N	96.67%	N	N		
NGA #64	LAILG-NGA64-3	3/17/12	90.00%	N	100.00%	N	N		

Y significantly different from control group
N no significant diffence between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a succesful TIE (Typically needs a TUc of greater than 2
NR not required

TABLE 13, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Ceriodaphnia		Fathead Minnow		Selenastrum	TIE	
			Survival	Reproduction	Survival	Growth	Growth	Date	Result
NGA #110	LAILG-NGA110-1	1/4/08	90.00%	N	80.00%	N	N		
NGA #189	LAILG-NGA189-1	1/4/08	100.00%	N	91.67%	N	**Y**		
NGA #19	LAILG-NGA19-3	1/5/08	TIE initiated based in results from sample LAILG-NGA#19-2					1/8/08	TIE was initiated, did not show an observed effect
NGA #124	LAILG-NGA124-3	1/5/08	TIE initiated based in results from sample NGA #124-LAILG-2					1/8/08	TIE was initiated, did not show an observed effect
NGA #4	LAILG-NGA4-2	1/23/08	TIE initiated based in results from sample NGA #4-LAILG-1					1/24/08	Non-polar organic compounds
NGA #53	LAILG-NGA53-2	1/23/08	TIE initiated based in results from sample NGA #53-LAILG-1					1/24/08	TIE was initiated, did not show an observed effect
NGA #64	LAILG-NGA64-1	1/23/08	100.00%	**Y**	91.67%	N	N		
NGA #182	LAILG-NGA182-2	1/23/08	TIE initiated based in results from sample NGA #182-LAILG-1					1/24/08	TIE was initiated, did not show an observed effect
NGA #19	LAILG-NGA 19-4	8/12/08	90.00%	N	NR		NR		
NGA # 4	LAILG-NGA 4-3	8/13/08	**0.00%**	**Y**	NR		NR	8/26/08	Non-polar organics and particulate-bound toxicants
NGA # 31	LAILG-NGA 31-1	9/23/08	**20.00%**	**Y**	NR		NR		
NGA # 19	LAILG-NGA19-5	11/26/08	70.00%	**Y**	NR		NR		
NGA # 210	LAILG-NGA 210-1	11/26/08	90.00%	**P**	98.33%	N	N		
NGA # 184	LAILG-NGA 184-1	11/26/08	80.00%	**P**	100.00%	N	N		
NGA # 124	LAILG-NGA 124-4	11/26/08	**0.00%**	**Y**	NR		NR	12/9/08	Volatile compounds
NGA #31	LAILG-NGA 31-2	11/26/08	80.00%	N	98.33%	N	**P**		
NGA # 130	LAILG-NGA 130-4	11/26/08	NR		NR		N		
NGA # 150	LAILG-NGA 150-3	11/26/08	NR		NR		**P**		
NGA # 25	LAILG-NGA 25-1	11/26/08	80.00%	**Y**	100.00%	N	N		
NGA # 124	LAILG-NGA 124-5	12/15/08	**0.00%**	**Y**	NR		NR	12/16/08	TIE was initiated, did not show an observed effect
NGA # 189	LAILG-NGA 189-2	12/15/08	NR		NR		**Y**	1/15/09	Particulate Bound toxicants and OP compounds
NGA # 110	LAILG-NGA 110-2	12/15/08	90.00%	N	NR		NR		
NGA # 178	LAILG-NGA 178-1	12/15/08	100.00%	N	100.00%	N	N		
NGA # 64	LAILG-NGA 64-2	12/15/08	90.00%	**P**	NR		NR		
NGA # 168	LAILG-NGA 168-5	12/15/08	90.00%	**P**	NR		NR		
NGA # 4	LAILG-NGA 4-4	12/15/08	**0.00%**	**Y**	NR		NR	12/16/08	Metals,copper,cadmium,zink,manganese,lead,and nickle

Y significantly different from control group
N no significant diffence between control group
P partial toxicity. Toxicity high enough to exhibit effects, but not significant enough to initiate a succesful TIE (Typically needs a TUc of greater than 2
NR not required

TABLE 13, cont.

SUMMARY OF HISTORICAL SAMPLES COLLECTED UNDER CWIL ORDER R4-2005-0080
TOXICITY RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	Ceriodaphnia		Fathead Minnow		Selenastrum	TIE	
			Survival	Reproduction	Survival	Growth	Growth	Date	Result
NGA #130	NGA-#130-LAILG-1	8/6/07	100.00%	N	93.33%	N	**Y**	ns	
NGA #183	NGA-#183-LAILG-1	8/6/07	100.00%	N	93.33%	N	N		
NGA #19	NGA-#19-LAILG-1	8/13/07	80.00%	N	98.30%	N	N		
NGA #124	NGA-#124-LAILG-1	8/13/07	100.00%	N	98.30%	N	N		
NGA #168	NGA-#168-LAILG-1	8/13/07	**0.00%**	**Y**	98.30%	N	**Y**	9/28/08	100% survival
NGA #150	NGA-#150-LAILG	9/25/07	**0.00%**	**Y**	98.33%	N	**Y**	ns	
NGA #168	NGA-#168-LAILG-3	11/30/07	100.00%	N	100.00%	N	N		
NGA #182	NGA #182-LAILG-1	12/7/07	**0.00%**	**Y**	98.33%	N	**Y**	IP	
NGA #4	NGA #4-LAILG-1	12/7/07	**0.00%**	**Y**	**40.00%**	**Y**	**Y**	IP	
NGA #130	NGA #130-LAILG-2	12/7/07	100.00%	N	98.33%	N	N		
NGA #150	NGA #150-LAILG-2	12/7/07	100.00%	N	98.33%	N	**Y**	IP	
NGA #124	NGA-#124-LAILG-2	12/7/07	**0.00%**	**Y**	100.00%	N	**Y**	IP	
NGA #176	NGA-#176-LAILG-1	12/18/07	100.00%	N	100.00%	N	N		
NGA #183	LAILG-NGA#183-3	12/18/07	100.00%	N	100.00%	N	N		
NGA #19	LAILG-NGA#19-2	12/18/07	**50.00%**	**Y**	100.00%	N	N	IP	
NGA #13	LAILG-NGA#13-1	12/18/07	**10.00%**	**Y**	**21.67%**	**Y**	N	IP	
NGA #53	LAILG-NGA#53-1	12/18/07	100.00%	N	81.67%	N	N		

Y Significantly different from control group
N No significant diffence between control group
ns not enough runoff for follow up sample
IP In progress

TABLE 14

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample ID	Date	Sample Type	Time (24hr)	*Approximate Flow Cross Section (ft^2)	Flow (ft/s)	Temperature (^oC)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #4	LAILG-NGA#4-5	3/21/11	Bucket	10:40	0.1250	0.01	11.0	9.81	43	na*	85
				10:44		0.01	11.1	9.64	25	na*	181
				10:50		0.01	11.2	9.29	25	na*	197
NGA #124	LAILG-NGA#124-6	3/21/11	Bucket	08:00	nm	9	10.4	7.89	292	na*	54.9
				08:05		11	10.5	7.82	282	na*	49.7
				08:10		13	10.5	7.87	268	na*	16.8
NGA #150	LAILG-NGA#150-5	3/21/11	Bucket	10:47	0.0185	4	15.4	6.70	1170	na*	34.7
				10:49		4	16.0	6.61	1127	na*	33.7
				10:50		5	15.9	6.59	1163	na*	38.0
NGA #19	LAILG-NGA#19-6	3/23/11	Grab	16:58	nm	nm	13.9	8.88	1.32	na*	999
				17:00		nm	14.2	8.83	1.05	na*	999
				17:02		nm	12.6	8.87	1.19	na*	999
NGA #31	LAILG-NGA#31-4	3/17/12	Grab	14:30	0.6042	0.88	13.83	7.73	99.9	9.33	220
				14:34		0.84	13.63	7.75	99.9	8.77	174
				14:38		0.94	13.44	7.95	98.6	8.51	181
NGA #64	LAILG-NGA#64-3	3/17/12	Grab	09:50	0.0833	1.3	14.7	5.5	14.3	10.48	352
				09:53		1.2	14.5	4.9	9.4	10.58	623
				09:58		1.3	14.5	5.2	4.2	10.43	179
NGA #162	LAILG-NGA#162-1	3/17/12	Grab	13:00	nm	nm	13.37	6.94	66.2	10.67	3.3
				13:02		nm	13.42	7.24	65.9	10.33	1.6
				13:05		nm	13.32	7.46	66.1	9.93	1.2
NGA #168	LAILG-NGA#168-6	3/17/12	Grab	11:15	0.0556	0.71	13.78	6.1	84.5	10.68	>800
				11:18		0.52	13.83	6.8	85.9	10.05	>800
				11:21		0.71	13.77	7.1	82.2	9.62	>800
NGA #4	LAILG-NGA#4-6	3/25/12	Pump	12:50	No flow measurements due to access restrictions		16.21	5.63	43.7	8.52	44.9
				12:52			16.31	5.74	39.3	8.58	35.7
				12:54			15.95	5.89	37.1	8.89	42.9

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is 2/3*width*depth

ft/s feet per second

mg/L milligrams per liter

^oC degrees celcius

NTU Nephelometric Turbidity Units

uS microsiemens

na* Not analyzed, DO meter was not functioning properly at the time of field sampling

TABLE 14, cont.

SUMMARY OF SAMPLES COLLECTED - CWIL ORDER R4-2010-0186 YEAR 1
FIELD MONITORING RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample ID	Date	Sample Type	Time (24hr)	*Approximate Flow Cross Section (ft^2)	Flow (ft/s)	Temperature (^oC)	pH	E.C. (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
NGA #170	LAILG-NGA#170-1	3/25/12	Grab	14:35	nm	nm	13.81	6.18	25.8	10.59	512
				14:37		nm	13.98	6.32	22.1	10.23	452
				14:40		nm	13.73	6.27	19.8	10.31	446
NGA #176	LAILG-NGA#176-2	3/25/12	Grab	15:15	nm	nm	13.17	6.49	39.7	10.69	>800
				15:17		nm	13.16	6.63	38.4	10.41	>800
				15:21		nm	12.73	6.44	40.2	10.69	>800
NGA #210	LAILG-NGA#210-2	3/25/12	Grab	17:45	nm	nm	13.21	7.22	0.129	10.55	5.8
				17:47		nm	13.35	7.75	0.130	10.40	3.8
				17:50		nm	13.88	7.93	0.133	10.24	5.5

* Runoff streams were assumed to have a parabolic shape unless field measurements indicated otherwise. The cross sectional area of a parabola is 2/3*width*depth

ft/s	feet per second	mg/L	milligrams per liter
^oC	degrees celcius	NTU	Nephelometric Turbidity Units
uS	microsiemens	nm	not monitored

TABLE 15-4

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 4
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)			OP Pesticides (ng/L)				Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Dicofol	Total DDT and Derivatives	Total Chlordane	Chlorpyrifos	Diazinon	Dichlorvos	Malathion	Total sum of all detected Pyrethroids
NGA #4	NGA #4-LAILG-1	12/7/07	0.48	20.64	1.1355	4.03	20.39	0.8	186	0.77	0.829	58	na	na	na	nd	nd	nd	**1,122.6**	**175.2**	11.3	nd	2,107.5
NGA #4	LAILG-NGA4-2	1/23/08	0.24	1.45	0.1891	0.6	3.87	0.15	145	0.26	1.848	27	na	na	na	nd	nd	nd	**153.8**	**2,212.1**	nd	**15,453.2**	1,389.4
NGA # 4	LAILG-NGA 4-3	8/13/08	0.68	350.11	11.5262	**200.18**	219.52	69.7	**2,238**	13.05	31.713	371	na	na	na	485.7	nd	**38.8**	nd	**6,058.9**	nd	**1,148,630**	26,753.7
NGA # 4	LAILG-NGA 4-4	12/15/08	0.52	8.67	1.0382	2.7	15.23	0.158	238	2.33	2.231	295	na	na	na	nd	nd	**99.5**	**590.9**	**859**	nd	**102,357.2**	96,588.0
NGA # 4	LAILG-NGA 4-5	3/21/11	0.69	10	0.31	1.5	8.3	0.52	110	0.310	2.6	810	62	25	0.230	na	**38**	**39.6**	**11,000**	**1,000**	nd	**7,300**	1,625.3
NGA # 4	LAILG-NGA 4-6	3/25/12	na	69	1.1	**17**	52	1.0	320	1.1	1.4	34	100	42	0.051	nd	nd	nd	**44,000**	nd	nd	**2,100**	109.7

Results above CWIL Limits are presented in **BOLD.**

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
na	Constituent not analyzed

TABLE 15-13

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 13
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	No Detected Chlordanes	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #13	LAILG-NGA#13-1	12/18/07	1.6	5.46	0.2033	1.72	32.27	0.49	32	1.44	2.878	944	**32.7**			873.9

Results above CWIL Limits are presented in **BOLD.**

mg/L milligrams per liter
ng/L nanograms per liter
OC Organochlorinated Pesticide
OP Organophosphorus Pesticide
Pyd Pyrethroid Pesticide

TABLE 15-19

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 19
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)		OP Pesticides (ng/L)			Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Total Chlordane	Chlorpyrifos	Diazinon	Malathion	Total sum of all detected Pyrethroids
NGA #19	NGA-#19-LAILG-1	8/13/07	1	108.57	2.2882	**10.84**	118.85	2.68	772	4.62	5.09	568	na	na	na	nd	nd	nd	nd	nd	0
NGA #19	LAILG-NGA#19-2	12/18/07	1.4	**162.66**	11.2352	**86.7**	290.99	2.13	**1,292**	4.01	5.544	684	na	na	na	nd	**2.4**	nd	15	2,291.3	1,814
NGA #19	LAILG-NGA19-3	1/5/08	0.12	**157.52**	0.2125	0.44	**451.78**	0.96	**1,030**	1.26	1.173	84	na	na	na	**5.6**	**14**	nd	nd	nd	6.8
NGA #19	LAILG-NGA 19-4	8/12/08	0.03	104.03	1.1877	**12.65**	107.33	1.75	834	1.86	15.494	213	na	na	na	nd	**1.3**	nd	nd	nd	91.8
NGA #19	LAILG-NGA 19-5	11/26/08	0.96	115.72	1.507	**26.94**	126.35	1.356	748	4.69	4.884	995	na	na	na	**24.7**	**6.6**	**130.1**	32.6	nd	2,236.2
NGA #19	LAILG-NGA 19-6	3/23/11	0.54	110	0.86	**55**	250	1.1	**1,200**	0.860	3.4	550	440	180	0.090	nd	nd	**25**	nd	nd	29

Results above CWIL Limits are presented in **BOLD.**

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit.
na	Constituent not analyzed

TABLE 15-31

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 31
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)		OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Total Chlordane	Chlorpyrifos	Malathion	Total sum of all detected Pyrethroids
NGA # 31	LAILG-NGA 31-1	9/23/08	0.13	82.13	1.562	**17.3**	134.93	1.472	602	2.34	1.813	162	na	na	na	**13.5**	**15.2**	nd	nd	78.6
NGA # 31	LAILG-NGA 31-2	11/26/08	0.76	6.12	0.474	3.6	14.84	0.497	104	1.63	1.94	353	na	na	na	nd	**17.9**	nd	nd	460.2
NGA # 31	LAILG-NGA 31-3	12/15/08	4.32	36.98	3.0228	**12.14**	57.58	2.148	364	2.87	3.155	85.5	na	na	na	nd	nd	**44.5**	**3,433.9**	52.6
NGA # 32	LAILG-NGA 31-4	3/17/12	1.1	55	1.0	**12**	160	0.90	520	1.0	2.0	81	240	95	0.027	nd	nd	nd	nd	35.9

Results above CWIL Limits are presented in **BOLD.**

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit.
na	Constituent not analyzed

TABLE 15-53

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 53
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	No Detected DDT and Derivatives	No Detected Chlordanes	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #53	LAILG-NGA#53-1	12/18/07	0.7	4.72	0.2973	0.49	12.51	0.57	132	0.75	1.188	124				11.5
NGA #53	LAILG-NGA#53-2	1/23/08	0.31	2.19	0.6425	0.76	14.92	0.82	nd	0.68	1.993	516				0

Results above CWIL Limits are presented in **BOLD.**

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-64

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 64
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Toxaphene	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #64	LAILG-NGA64-1	1/23/08	0.2	3.82	0.2818	3.83	101.1	0.3	nd	0.46	0.393	76	na	na	na	0	0		47.4
NGA #64	LAILG-NGA 64-2	12/15/08	1.15	12.38	0.4307	5.39	35.34	0.49	232	0.71	0.868	112	na	na	na	**43.3**	**666**		110
NGA #64	LAILG-NGA 64-3	3/17/12	0.79	5.8	0.28	0.70	8.4	0.32	57	0.28	1.5	500	51	21	0.047	**28**	nd		22

Results above CWIL Limits are presented in **BOLD.**

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-109

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 109/110
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	No Detected Chlordanes	Chlorpyrifos	Diazinon	Total DDT and Derivatives
NGA #110	LAILG-NGA110-1	1/4/08	0.41	10.65	1.3052	2.36	18.22	1.74	162	1.81	2.033	24	nd		**88.5**	**534.8**	0
NGA # 110	LAILG-NGA 110-2	12/15/08	0.31	28.59	1.186	**8.48**	50.87	1.469	328	1.6	1.868	93	**6.2**		nd	79.8	67.2

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit.
na	Constituent not analyzed

TABLE 15-124

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 124
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)			OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Dieldrin	Total Chlordane	Chlorpyrifos	Malathion	Total sum of all detected Pyrethroids
NGA #124	NGA-#124-LAILG-1	8/13/07	9.8	69.23	3.5006	**72.48**	206.25	4.31	**1,002**	3.96	4.627	99.5	na	na	na	**51.5**	na	**34**	nd	nd	136.9
NGA #124	NGA-#124-LAILG-2	12/7/07	4.6	33.03	3.9247	**45.41**	59.24	2.9	550	2.76	3.168	90	na	na	na	**37.4**	na	**11.4**	nd	nd	3,704.3
NGA #124	LAILG-NGA#124-3	1/5/08	15.5	28.3	0.9814	**28.34**	57.68	1.66	378	1.66	2.228	40	na	na	na	nd	na	**17.1**	nd	nd	1,898.6
NGA #124	LAILG-NGA#124-4	11/26/08	0.48	37.78	2.595	**28.36**	84.22	2.975	568	2.53	3.297	117	na	na	na	**19.3**	na	**8.2**	nd	nd	7,536.1
NGA #124	LAILG-NGA 124-5	12/15/08	1.68	26.51	24.4087	**40.43**	45.28	21.115	424	3.66	2.706	115.5	na	na	na	**10.4**	na	**13.6**	nd	85.3	19,281.3
NGA #124	LAILG-NGA 124-6	3/21/11	0.36	9.4	1.8	6.7	24	1.8	240	1.800	2.7	620	61	24	0.045	nd	**33**	nd	10	nd	169.8

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit
na	Constituent not analyzed

TABLE 15-150

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 150
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)			OP Pesticides (ng/L)		Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Aldrin	Total Chlordane	Chlorpyrifos	Malathion	Total sum of all detected Pyrethroids
NGA #150	NGA-#150-LAILG	9/25/07	**52.4**	95.9	26.84	**355.6**	87	22.5	**2279**	23	24	57	na	na	na	nd	nd	nd	nd	nd	2,383.0
NGA #150	NGA #150-LAILG-2	12/7/07	2.9	27.34	14.0243	**80.89**	56.59	9.43	**780**	8.89	9.445	40	na	na	na	nd	**35.2**	nd	nd	nd	873.5
NGA # 150	LAILG-NGA 150-3	11/26/08	**32.2**	65.92	31.579	**114.76**	**258.65**	49.896	**2,446**	37.69	48.048	45.5	na	na	na	nd	nd	nd	nd	nd	2,577.2
NGA # 150	LAILG-NGA 150-4	12/15/08	15.75	47.27	26.0911	**268.53**	**125.27**	24.935	**1,704**	2.94	24.75	333.5	na	na	na	nd	nd	nd	**90.2**	nd	2,155.4
NGA # 150	LAILG-NGA 150-5	3/21/11	3.7	28	12	**120**	60	32	**1,200**	12.00	32	110	300	120	0.031	nd	nd	nd	**33**	nd	528

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit.
na	Constituent not analyzed

TABLE 15-162

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 162
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	No OC Pesticides Detected	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #162	NGA #162-LAILG-1	3/17/12	0.16	35	0.96	5.9	120	0.95	350	0.96	1.0	5	140	57	0.014			264

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
na	Constituent not analyzed

TABLE 15-168

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 168
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES COUNTY IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Total Chlordane	Malathion	Total sum of all detected Pyrethroids
NGA #168	NGA-#168-LAILG-1	8/13/07	0.4	81.85	1.977	4.93	131.16	2.28	**664**	2.13	3.243	122	na	na	na	nd	nd	nd	924.8
NGA #168-2	ILGNGA-#168-2	9/28/07	2.2	172.52	1.582	8.91	340.14	2.15	**1,297**	3.51	5.379	504	na	na	na	118	nd	nd	2,270.2
NGA #168	NGA-#168-LAILG-3	11/30/07	0.48	101.43	2.1635	**30.81**	245.04	2.67	**951**	3.13	3.548	nd	na	na	na	2.7	2.8	8.9	1,219.8
NGA #168	LAILG-NGA168-4	1/25/08	0.38	65.9	3.053	**14.58**	117.44	3.07	**592**	5.45	2.363	1126.7	na	na	na	19.2	nd	nd	1,866.2
NGA # 168	LAILG-NGA 168-5	12/15/08	0.25	53.4	1.4434	**15.33**	130.75	1.568	492	2.24	2.386	236	na	na	na	11.8	nd	38.9	915.6
NGA #168	LAILG-NGA168-6	3/17/12	0.89	82	1.1	**35**	**470**	1.7	**1,100**	1.1	8.4	1200	500	200	0.110	nd	nd	nd	72

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
nd	Nondetect. Reported value was less than the laboratory Method Detection Limit.
na	Constituent not analyzed

TABLE 15-170

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 170
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	Total DDT and Derivatives	Stirophos	Total sum of all detected Pyrethroids
NGA #170	NGA #170-LAILG-1	3/25/12	0.31	18	0.65	1.6	14	0.60	130	0.65	0.86	100	61	24	0.030	**9.6**	14	16.8

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide
na	Constituent not analyzed

TABLE 15-176

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 176
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)												OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu			
NGA #176	NGA-#176-LAILG-1	12/18/07	5.5	56.82	0.7145	3.85	**293.12**	0.54	**680**	12.21	3.447	6,168	na	na	na	No Detected DDT and Derivatives	No Detected OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #176	NGA-#176-LAILG-2	3/25/12	0.30	29	0.99	8.7	43	0.99	220	0.99	2.2	550	80	32	0.066			873.9
																		305

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-178

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 178
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA # 178	LAILG-NGA 178-1	12/15/08	0.81	**85.04**	2.4077	**12.99**	**148.27**	2.648	**462**	2.64	2.934	72.7	**25.3**		4.9

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-184

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 184
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	No OP Pesticides Detected	Total sum of all detected Pyrethroids
NGA #184	LAILG-NGA 184-1	11/26/08	0.46	31.44	0.609	3.12	17.92	0.643	206	0.88	1.3	129.5	nd	nd		3.1
NGA #184	LAILG-NGA 184-2	12/15/08	0.64	27.46	0.7339	4.41	33.57	0.502	240	2.16	2.94	1,079	**22**	**4.2**		30.7

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-189

SUMMARY OF SAMPLES COLLECTED - LAILG SITE 189
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)										OC Pesticides (ng/L)		OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	Total DDT and Derivatives	Total Chlordane	Malathion	Total sum of all detected Pyrethroids
NGA # 189-1	LAILG-NGA189-1	1/4/08	0.59	7.29	0.6851	1.83	26.43	1.33	192	1.8	2.475	20	**22.5**	**14.9**	26.9	0
NGA # 189-2	LAILG-NGA 189-2	12/15/08	0.54	31.28	0.6795	**9.87**	41.27	0.813	220	0.99	1.261	111.3	nd	nd	nd	6.1

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

TABLE 15-210

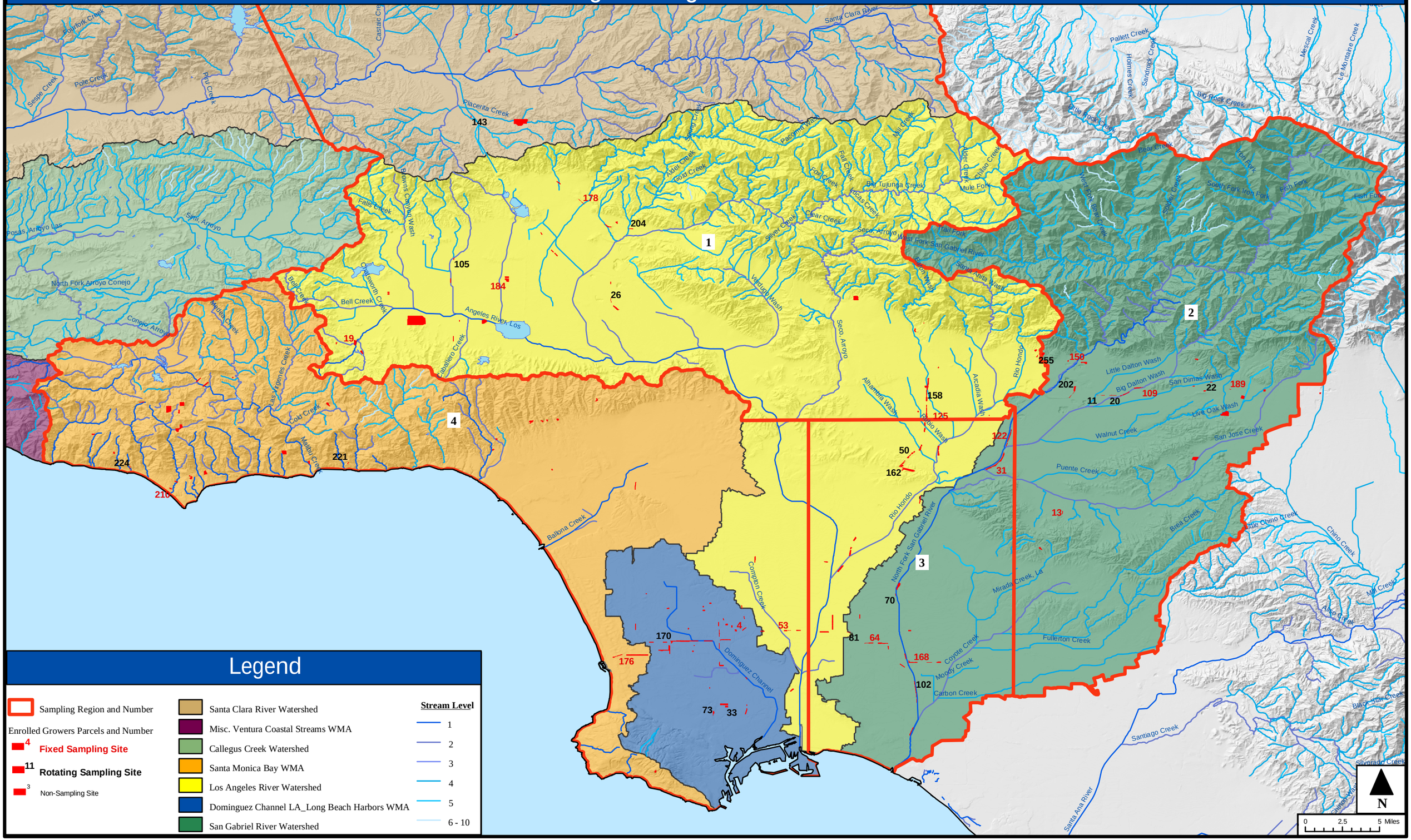
SUMMARY OF SAMPLES COLLECTED - LAILG SITE 210
COMPARATIVE LABORATORY ANALYTICAL RESULTS
NURSERY GROWERS ASSOCIATION
LOS ANGELES IRRIGATED LANDS GROUP

Site	Sample #	Date	General Chemistry (mg/L)													OC Pesticides (ng/L)	OP Pesticides (ng/L)	Pyd Pesticides (ng/L)
			Ammonia	Chloride	Diss Ortho	Nitrate	Sulfate	Total Diss Phos	TDS	Total Ortho	Total Phos	TSS	CA Hardness, as CaCO3	Ca	Cu	No OP Pesticides Detected	Malathion	Total sum of all detected Pyrethroids
NGA # 210	LAILG-NGA 210-1	11/26/08	0.11	155.92	1.892	0.92	**336.78**	2.185	**884**	3.23	3.722	542	na	na	na		56.4	279.8
NGA # 210	LAILG-NGA 210-2	3/25/12	0.20	110	1.4	0.57	**250**	1.3	**700**	1.4	2.8	86	270	110	0.0060		41	82.7

Results above CWIL Limits are presented in BOLD.

mg/L	milligrams per liter
ng/L	nanograms per liter
OC	Organochlorinated Pesticide
OP	Organophosphorus Pesticide
Pyd	Pyrethroid Pesticide

Figure 1 Los Angeles County Irrigated Lands Group
Los Angeles Region Watersheds



Legend

- Sampling Region and Number
- Enrolled Growers Parcels and Number
- 4 Fixed Sampling Site
- 11 Rotating Sampling Site
- 3 Non-Sampling Site

- Santa Clara River Watershed
- Misc. Ventura Coastal Streams WMA
- Callegus Creek Watershed
- Santa Monica Bay WMA
- Los Angeles River Watershed
- Dominguez Channel LA_Long Beach Harbors WMA
- San Gabriel River Watershed

Stream Level

- 1
- 2
- 3
- 4
- 5
- 6 - 10

N

● = SAMPLE LOCATION

FIGURE 2

SAMPLE LOCATION
ABC NURSERY-LAILG SITE # 4
424 GARDENA BLVD.
GARDENA

N

= ANTICIPATED SAMPLE LOCATION

= POSSIBLE SAMPLE LOCATION

FIGURE 3

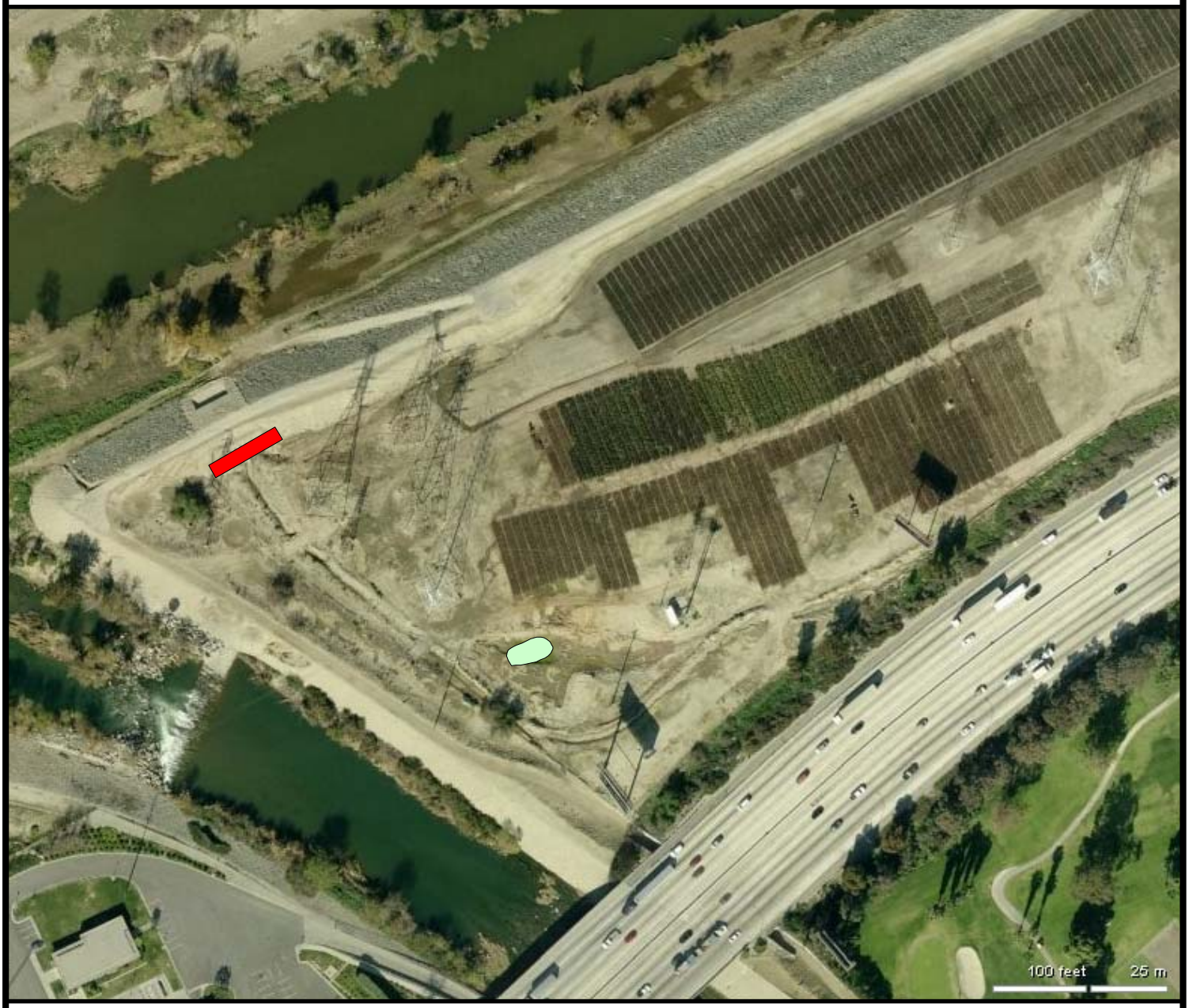
ANTICIPATED SAMPLE LOCATION
ACOSTA GROWERS-LAILG SITE # 13
16412 WEDGEWORTH DR.
HACIENDA HEIGHTS, CA

N

= SAMPLE LOCATION

FIGURE 4

SAMPLE LOCATION
BOETHING TREELAND FARMS-LAILG SITE # 19
23475 LONG VALLEY ROAD
WOODLAND HILLS



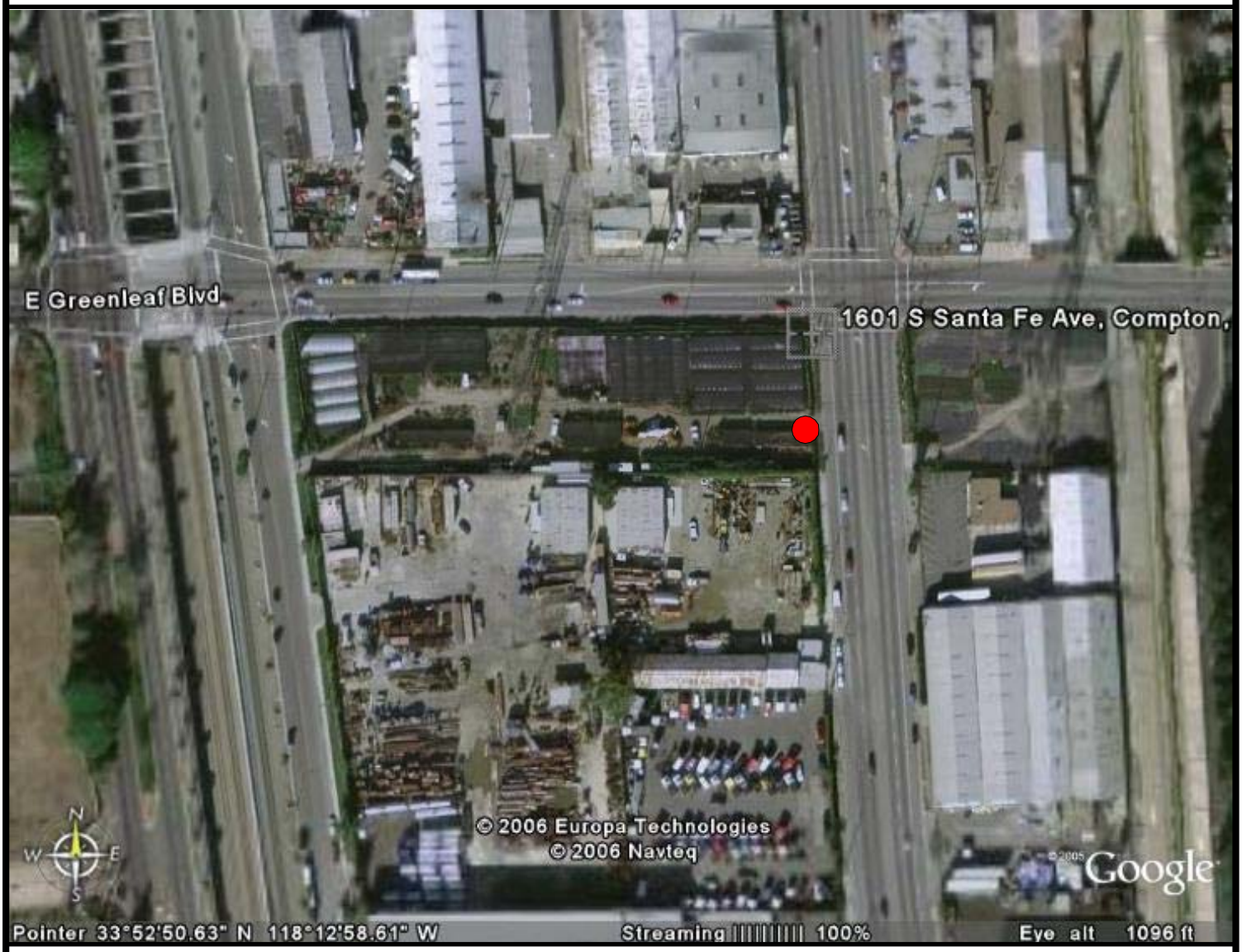
N

= SAMPLE LOCATION

= CATCH BASIN LOCATION

FIGURE 5

SAMPLE LOCATION
COINER NURSERY-LAILG SITE # 31
285 SOUTH SAN FIDEL AVE.
LA PUENTE. CA



N

= ANTICIPATED SAMPLE LOCATION

FIGURE 6

ANTICIPATED SAMPLE LOCATION
NEW WESTGROWERS-LAILG SITE # 53
1601 SANTA FE AVE.
COMPTON, CA

N

= SAMPLE LOCATIONS

FIGURE 7

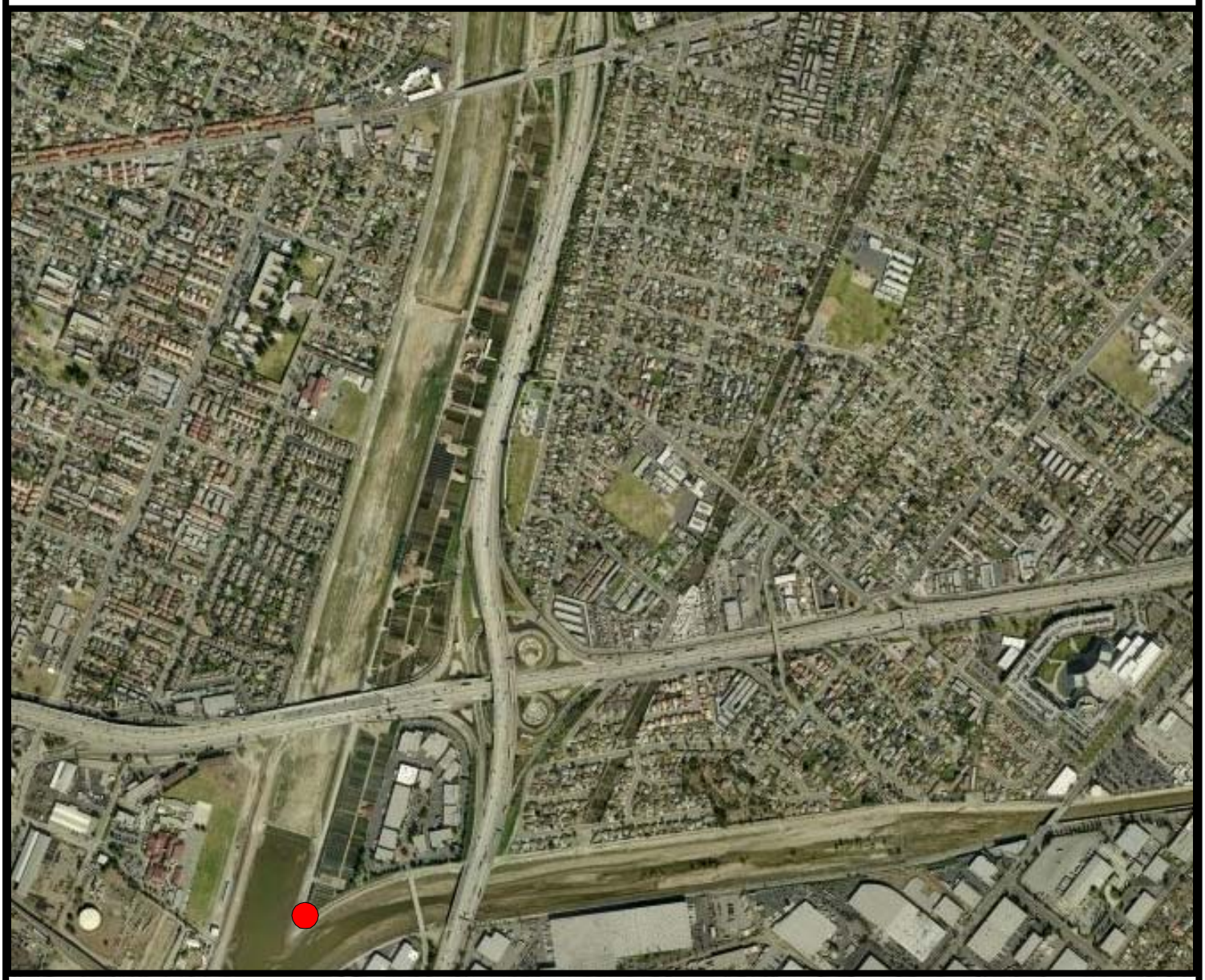
SAMPLE LOCATION
H&H NURSERY-LAILG SITE # 64
6220 LAKEWOOD BLVD.
LAKEWOOD, CA

N

= ANTICIPATED SAMPLE LOCATION

FIGURE 8

ANTICIPATED SAMPLE LOCATION
RAINBOW GARDEN NURSERY-LAILG SITE # 109
1135 SOUTH GRAND AVE.
GLENDORA, CA



N

● = ANTICIPATED SAMPLE LOCATION

FIGURE 9

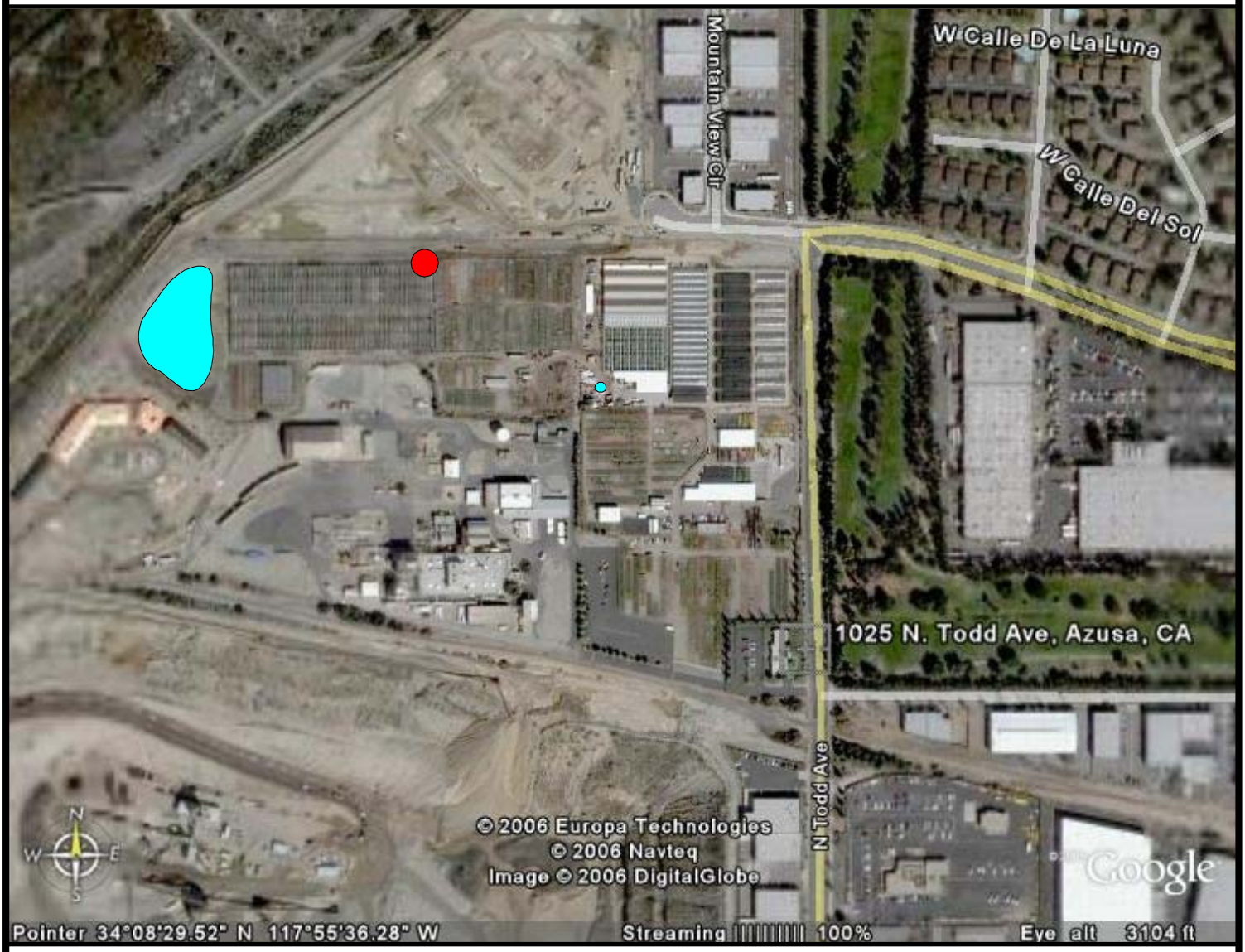
ANTICIPATED SAMPLE LOCATION
NORMAN'S NURSERY-LAILG SITE # 122
12500 RAMONA BLVD
BALDWIN PARK, CA

N

= SAMPLE LOCATION

FIGURE 10

SAMPLE LOCATION
NORMAN'S NURSERY-LAILG SITE # 125
1150 EAST BROADWAY
SAN GABRIEL



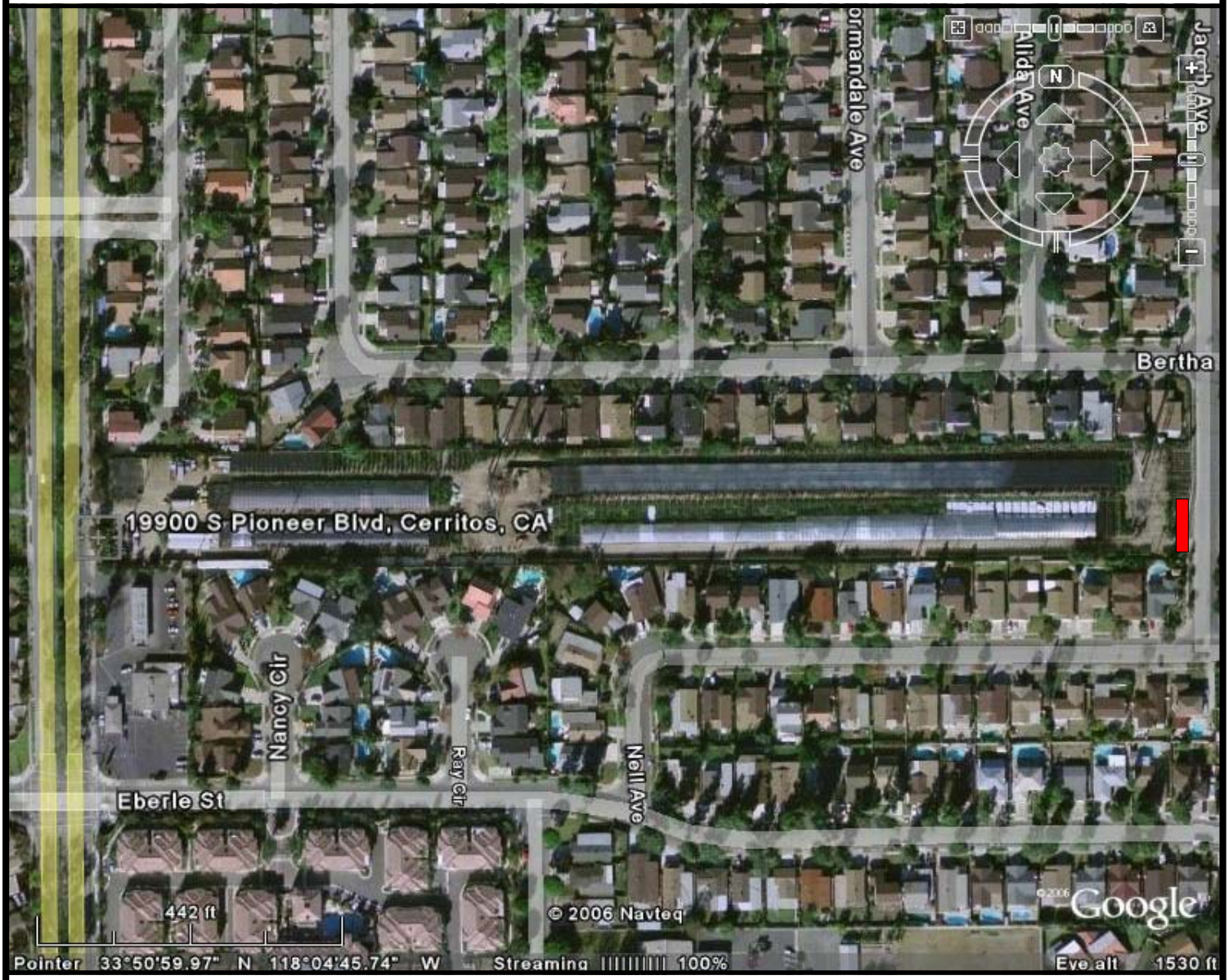
N

= SAMPLE LOCATION

= SUMP PUMP AND COLLECTION POND

FIGURE 11

SAMPLE LOCATION
COLORAMA-LAILG SITE # 150
1025 N TODD AVE.
AZUSA, CA



N

= SAMPLE LOCATION

FIGURE 12

SAMPLE LOCATION
SY NURSERY, INC.-LAILG SITE # 168
19900 S PIONEER BLVD
CERRITOS, CA

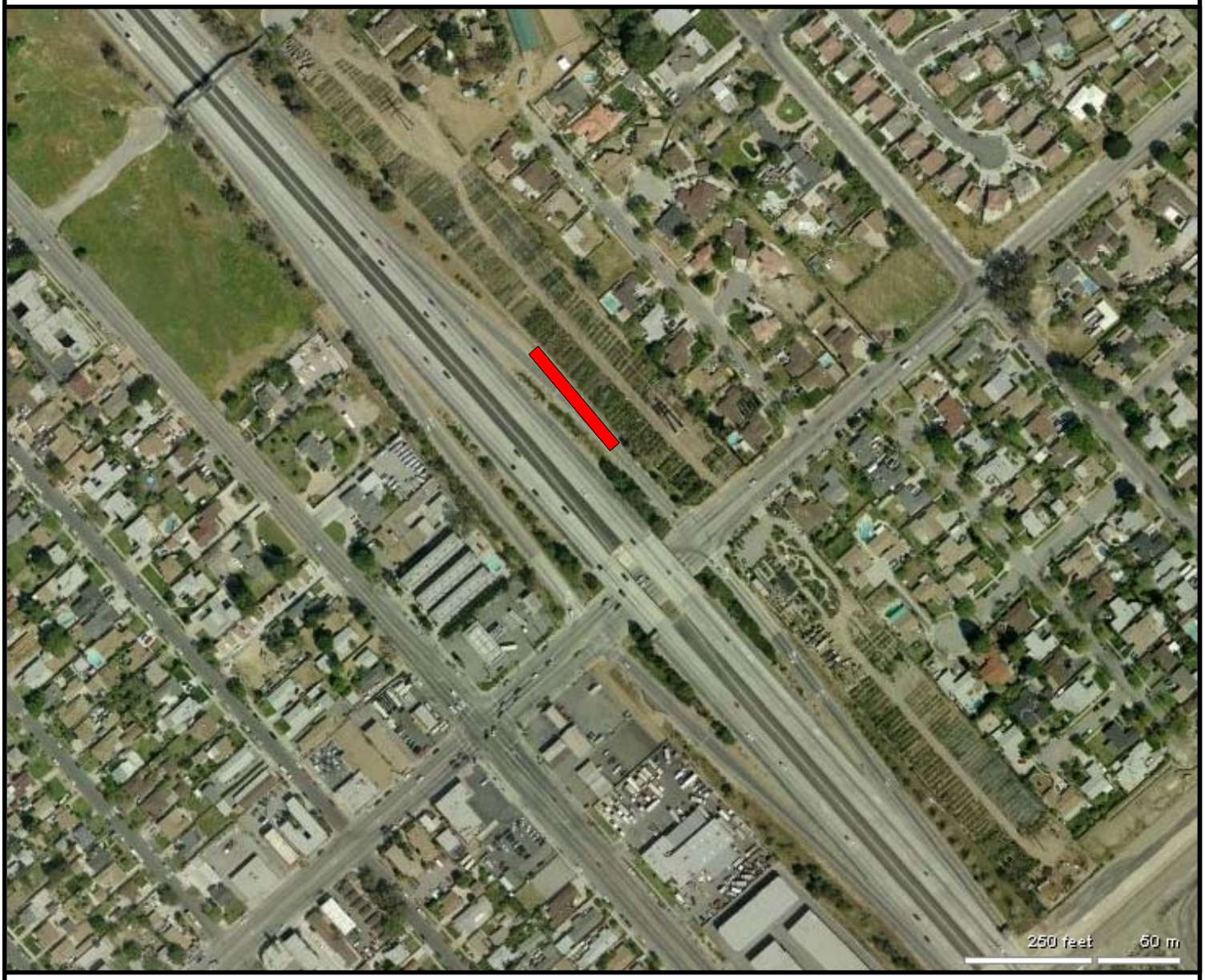
N

= COLLECTION POND LOCATION

= SAMPLE LOCATION

FIGURE 13

SAMPLE LOCATION
TY NURSERY-LAILG SITE # 176
BETWEEN PAULINA AVE AND HARKNESS LN
REDONDO BEACH, CA

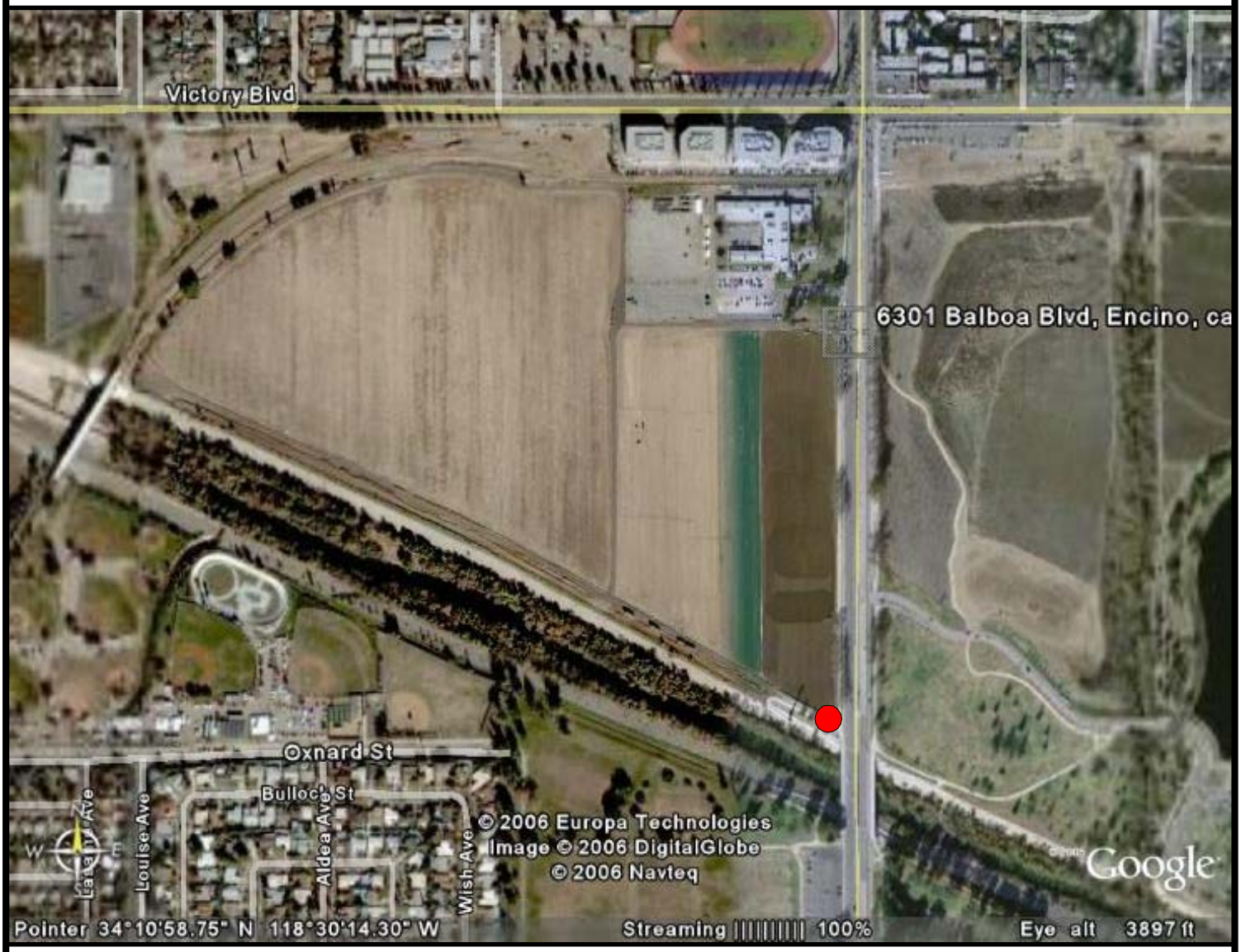


N

= ANTICIPATED SAMPLE LOCATION

FIGURE 14

ANTICIPATED SAMPLE LOCATION
ULTRA GREEN-LAILG SITE # 178
13102 MACLAY STREET
SYLMAR, CA

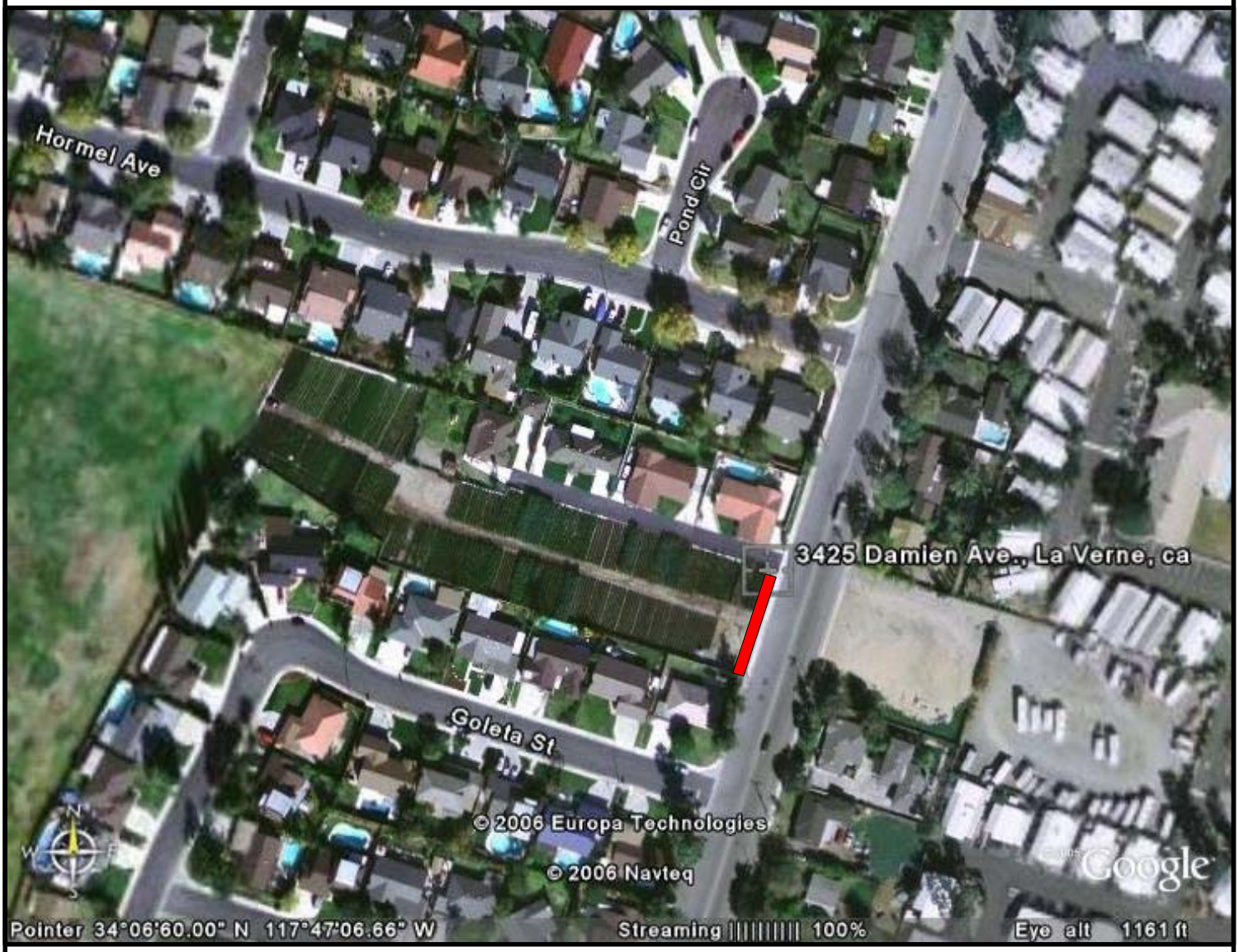


N

● = ANTICIPATED SAMPLE LOCATION

FIGURE 15

ANTICIPATED SAMPLE LOCATION
VALLEY SOD FARMS-LAILG SITE # 184
6301 BALBOA BLVD.
ENCINO, CA

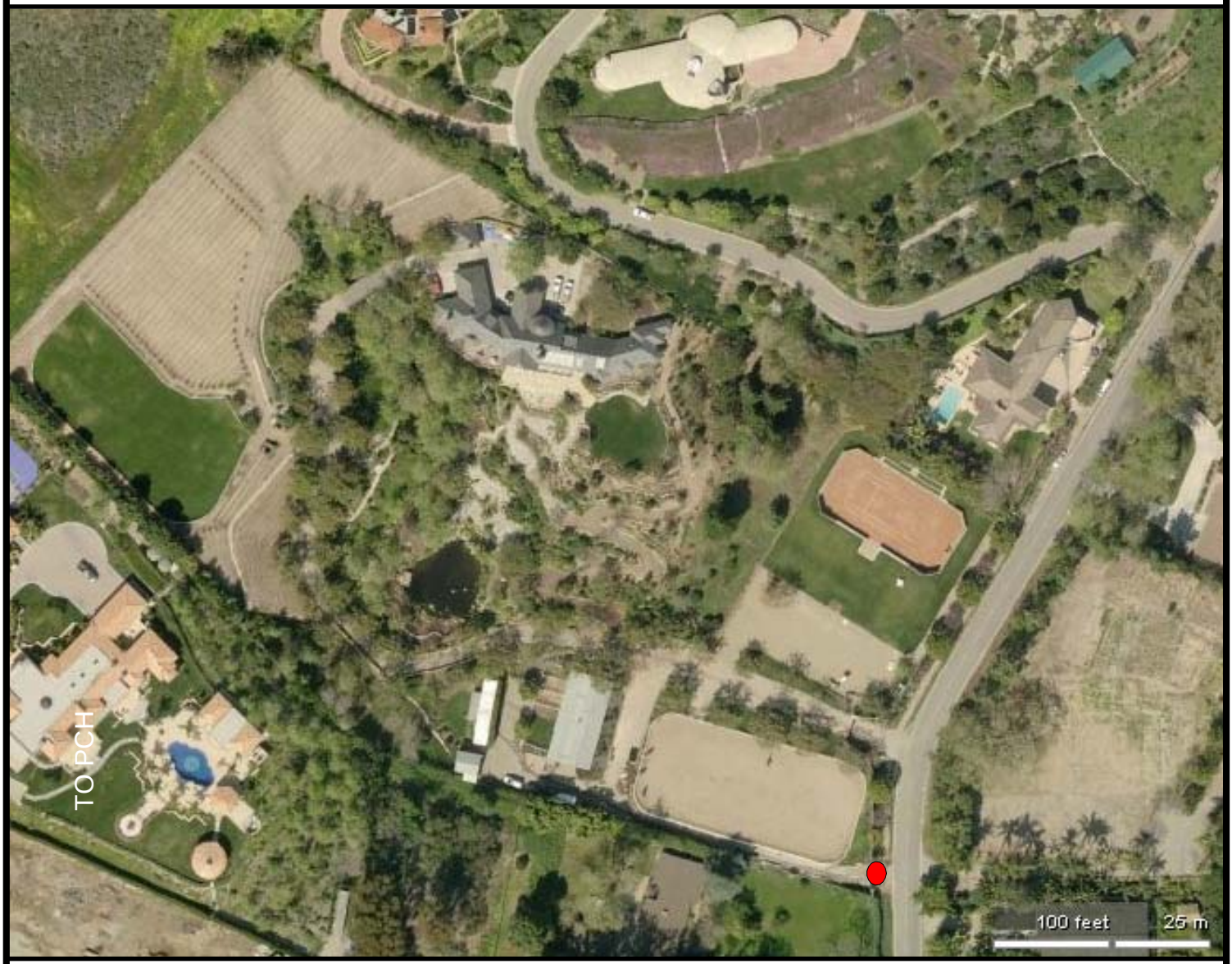


N

= ANTICIPATED SAMPLE LOCATION

FIGURE 16

ANTICIPATED SAMPLE LOCATION
WEST COVINA WHOLESALE-LAILG SITE # 189
3425 DAMIEN AVE.
LA VERNE, CA

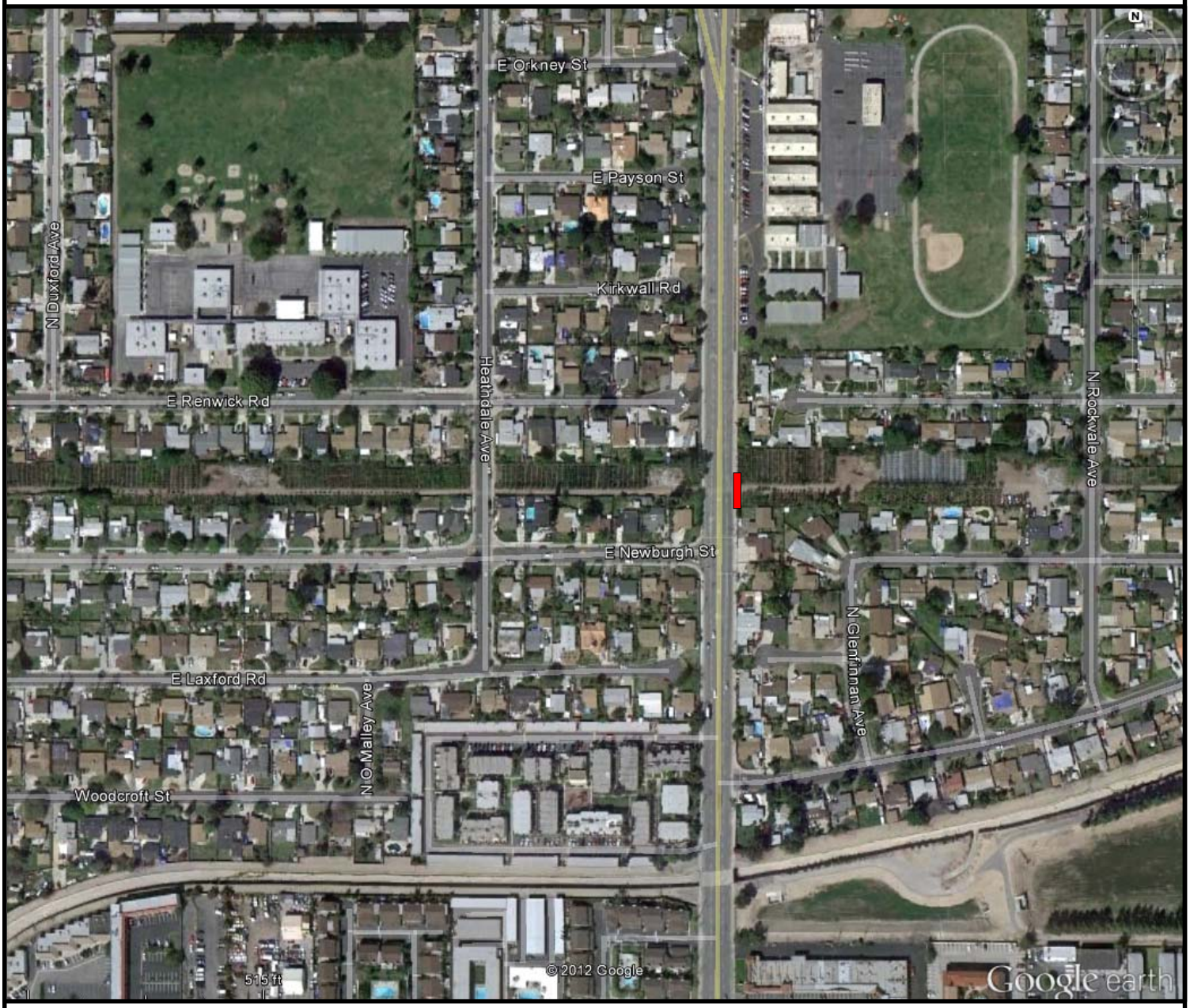


N

= SAMPLE LOCATION

FIGURE 17

SAMPLE LOCATION
HAGGSTROM VINEYARD-LAILG SITE # 210
6415 BUSCH DRIVE
MALIBU, CA

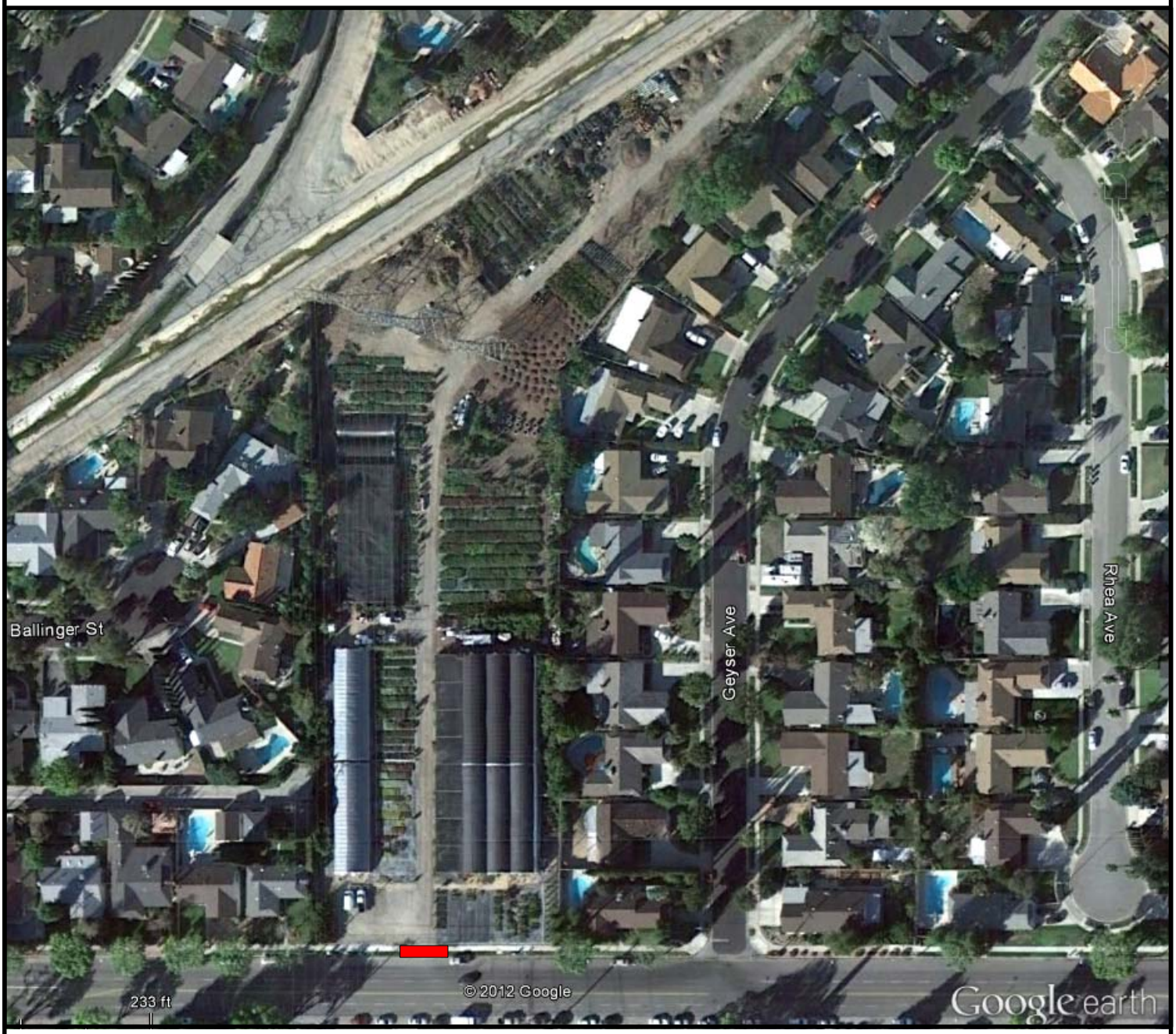


N

= ANTICIPATED SAMPLE LOCATION

FIGURE 18

ANTICIPATED SAMPLE LOCATION
BROTHERS NURSERY-LAILG SITE # 20
Cerritos & Newburgh St
Azusa, CA

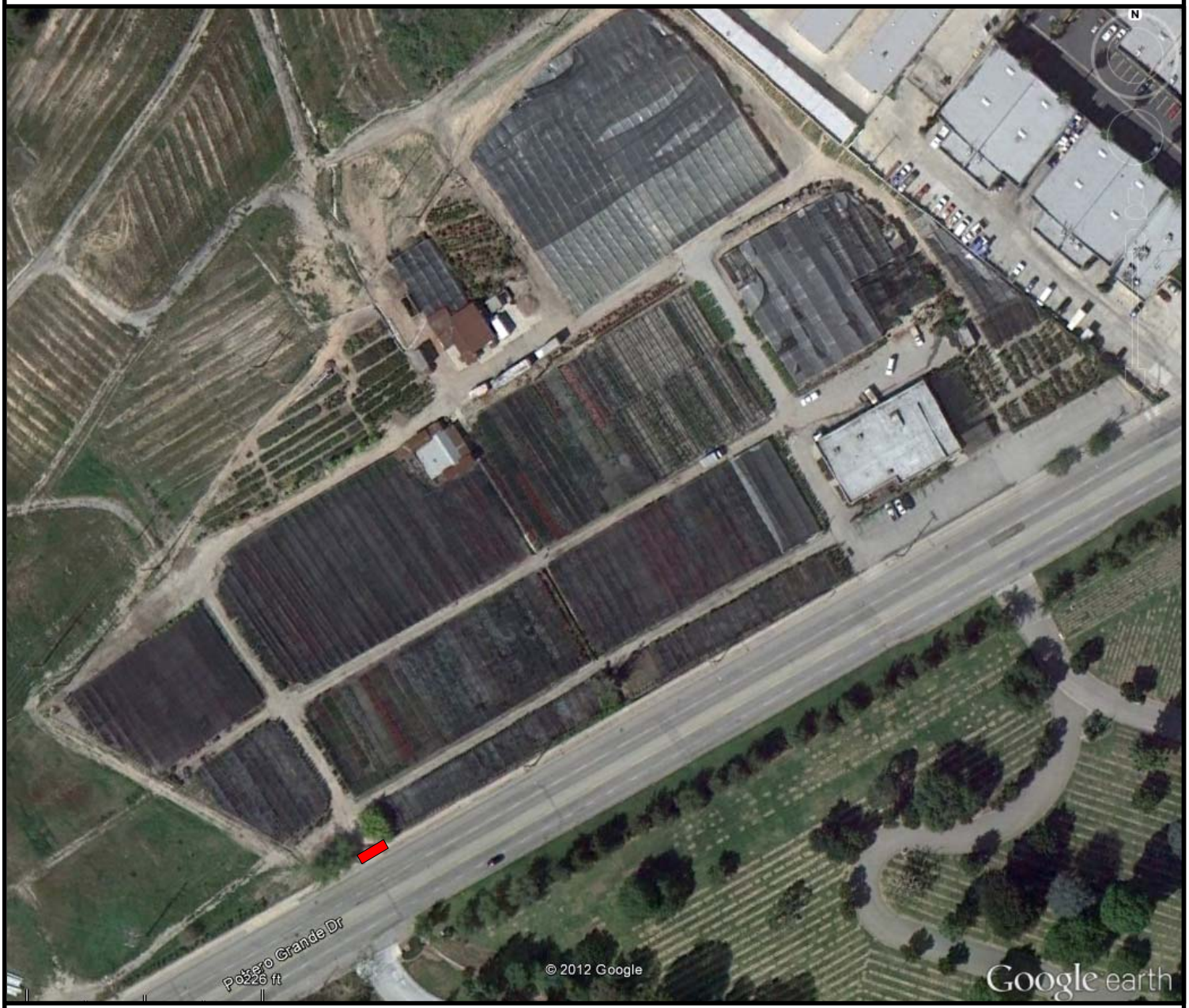


N

= ANTICIPATED SAMPLE LOCATION

FIGURE 19

ANTICIPATED SAMPLE LOCATION
LIVE ART PLANTSCAPES, INC - NGA SITE #105
18809 Plummer St
Northridge, CA

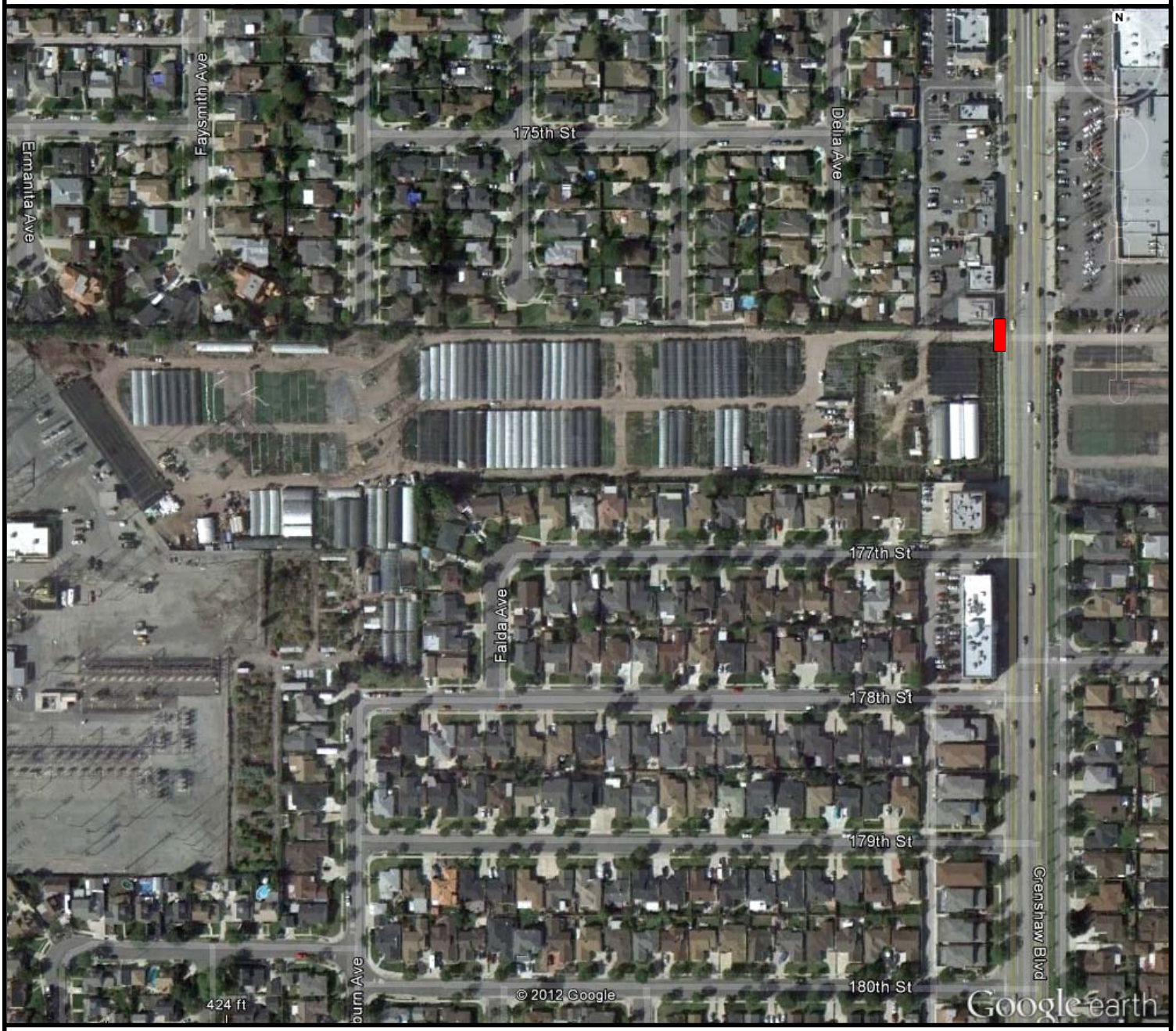


N

= SAMPLE LOCATION

FIGURE 20

SAMPLE LOCATION
SAN GABRIEL NURSERY AND FLOREST-NGA SITE #162
2015 Potrero Grande
Monterey Park, CA



N

= SAMPLE LOCATION

FIGURE 21

SAMPLE LOCATION
TORO NURSERY, INC - NGA SITE #170
17585 Crenshaw Blvd
Torrance, CA