



Department of Pesticide Regulation



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MEMORANDUM

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DATE: September 24, 2014

SUBJECT: METHYL BROMIDE AND 1,3-DICHLOROPROPENE AIR MONITORING RESULTS

INTRODUCTION

In September 2010, as part of California Department of Pesticide Regulation's (DPR) Toxic Air Contaminant Program, DPR submitted a request to the California Air Resources Board (ARB) for monitoring to be conducted pursuant to Food and Agricultural Code section 14022(c) for several fumigant pesticides at two communities (Camarillo/Oxnard and Santa Maria). The pesticides Methyl bromide and 1,3-dichloropropene (1,3-D) were among the compounds collected once every six days for a 15-month study starting 8/10/2010 and was scheduled to end on 10/30/2011. At the request of DPR, ARB monitoring continued in the original two communities until the end of 2013. Additionally, methyl bromide and 1,3-dichloropropene monitoring near Watsonville was added starting January 2012 and continued until the end of 2013.

This report includes methyl bromide and 1,3-dichloropropene monitoring results from all three sampling locations (Camarillo/Oxnard, Santa Maria, and Watsonville) for the 2010-2013 calendar years.

MATERIALS AND METHODS

The following summarizes the sampling and analysis procedures. More detailed descriptions are given in the monitoring protocol available at



http://www.cdpr.ca.gov/docs/emon/pubs/tac/tacpdfs/2011_ambient_protocol_final.pdf

Sampling Locations (Figure 1)

Methyl bromide and 1,3-dichloropropene monitoring includes one site in each of three communities: Camarillo/Oxnard, Santa Maria, and Watsonville. ARB originally established the Camarillo/Oxnard site at the animal shelter in Camarillo in August 2010, and continued sampling at this location until October 2011. The air sampler was then moved to Rio Mesa High School in Oxnard (Ventura County) in October 2011, and monitoring continues at this location.



Figure 1. Map showing all three sampling locations.

Sample Collection

Air samples were collected using a Tisch Environmental 3-Channel Canister Sampler. The sampler was automated to collect a 24-hr air sample into a SilcoCan® canister (Restek cat. no. 24142-65) once every six days. Sample collection would commence at 00:00 and would automatically be terminated at 23:59 of the sampling day.

Analytical Methods

Air samples collected were processed by the ARB Organics Laboratory Section (OLS) of the Northern Laboratory Branch. Air canisters were analyzed for volatile organic compounds using OLS Method MLD058. Method MLD058 is a gas chromatographic method utilizing an Automated Sample Concentrator, capillary gas chromatography, and Ion Trap Mass Spectrometry.

Reporting Limit

The Reporting Limit (RL) is the lowest concentration of a pesticide (analyte) that a chemical method can reliably detect. The laboratory determined the reporting limit for each analyte by analyzing a standard at a concentration with a signal to noise ratio of 2.5 to 5. The RL for both methyl bromide and 1,3-dichloropropene is listed in Table 1.

Table 1. Reporting Limit

Pesticide	Reporting Limit (ppb)
Methyl Bromide	0.03
1,3-Dichloropropene	0.10

Health Evaluation Methods

DPR compares measured ambient air concentrations to human health screening levels to determine what, if any, action to take. No state or federal agency has established regulatory health standards for pesticides in ambient air (some agencies have developed occupational standards, or site-specific standards). Therefore, DPR in consultation with the California Office of Environmental Health Hazard Assessment and others has developed health screening levels for monitored pesticides to place the results in a health based context. Although not regulatory standards, these screening levels can be used in the process of evaluating the air monitoring results. A measured air level that is below the screening level for a given pesticide would generally not be considered to represent a significant health concern and would not generally undergo further evaluation. A measured level that is above the screening level would not necessarily indicate a significant health concern, but would indicate the need for a further and more refined evaluation. Significant exceedances of the screening levels could be of health concern and would indicate the need to explore mitigation measures.

DPR primarily uses screening levels for pesticides for which it has not completed a comprehensive health evaluation (risk assessment) or established a regulatory goal. DPR's 1,3-dichloropropene screening level for acute exposure (average air concentration for one day) is 35 parts per billion (ppb). DPR's screening levels for subchronic exposure (average air concentration for one month) is 25 ppb. DPR's screening level for chronic exposure (average air concentration for one year) is 25 ppb. DPR has also established a regulatory target concentration for acceptable cancer risk from lifetime exposure to 1,3-dichloropropene of 0.14 ppb. For methyl bromide, DPR has completed a peer-reviewed risk assessment, as well as revised

the legal requirements for the use of methyl bromide to reduce exposures and achieve specific target air concentrations. DPR's methyl bromide regulatory target concentration for acute exposure (average air concentration for one day) is 210 parts per billion (ppb). DPR's regulatory target concentration for subchronic exposure (average air concentration for one month) is 5 ppb. DPR has not established a regulatory target concentration for chronic exposure, but the screening level (average air concentration for one year) derived from the risk assessment is 1 ppb.

Invalid Samples

A total of 619 air samples were collected, with each sample analyzed for 1,3-dichloropropene and methyl bromide. Of the 619 air samples collected, 18 were invalid. Ten samples taken from the Watsonville sampling location, five samples taken from Camarillo/Oxnard, and three samples from Santa Maria were invalid either due to an ending pressure outside of the accepted criteria, power failure during sample extraction, or due to sample leakage during transit. The air samples lost were not replaced. Table 2 lists the invalid samples taken from all six sampling locations.

Table 2. Invalid samples by sampling location.

Sample ID	Site Location	Sampling Date	Comments/Reason for invalid status
TX011461	Camarillo/Oxnard	2/15/12	Invalid – Final Pressure Outside of Acceptable Range
TX012717	Camarillo/Oxnard	8/20/13	Invalid – Canister Leaked during Analysis
TX012718	Camarillo/Oxnard	8/20/13	Invalid – Canister Leaked during Analysis
TX012780	Camarillo/Oxnard	9/19/13	Invalid – Canister Leaked during Transit
TX012933	Camarillo/Oxnard	12/12/13	Invalid – Canister Leaked during Transit
TX011317	Santa Maria	12/17/11	Invalid – Canister Leaked during Transit
TX012249	Santa Maria	2/3/13	Invalid – Canister Leaked during Transit
TX012548	Santa Maria	6/21/13	Invalid – Final Pressure Outside of Acceptable Range
TX011319	Watsonville	12/17/11	Invalid – Final Pressure Outside of Acceptable Range
TX011429	Watsonville	2/3/12	Invalid – Final Pressure Outside of Acceptable Range
TX011431	Watsonville	2/9/12	Invalid – Collection Error; Invalidated by Operator
TX011462	Watsonville	2/15/12	Invalid – Sampling Time out of Range: >25 hours
TX011499	Watsonville	3/4/12	Invalid – Final Pressure Outside of Acceptable Range
TX011525	Watsonville	3/11/12	Invalid – Sampling Time out of Range: >25 hours
TX011970	Watsonville	9/24/12	Invalid – Sampling Time out of Range: <23 hours
TX012088	Watsonville	11/23/12	Invalid – Final Pressure Outside of Acceptable Range
TX012305	Watsonville	2/27/13	Invalid – Final Pressure Outside of Acceptable Range
TX012322	Watsonville	3/5/13	Invalid – Final Pressure Outside of Acceptable Range

RESULTS

Laboratory matrix spikes and matrix blanks were included with every set of samples extracted and analyzed at the lab and are part of the laboratory quality control (QC) program. The matrix spikes are conducted to assess accuracy and precision; the blanks are to check for contamination at the laboratory. For 1,3-dichloropropene: none of the lab matrix blank samples showed any 1,3-dichloropropene concentrations. Co-located duplicate air canister samples were collected as part of the QC process, with absolute percent differences ranging from 4.7% to 200% for all *cis*- isomer samples and 0% to 6.0% for all *trans*- isomer samples. For field spike samples, 1,3-dichloropropene recovery was 106.5 percent for *cis*- isomer samples and 110.1 percent on average for *trans*- isomer. For methyl bromide: none of the lab matrix blank samples showed any methyl bromide concentrations. Co-located duplicate air canister samples were collected as part of the QC process, with absolute percent differences ranging from 6.9% to 11.1% for all methyl bromide samples. For field spike samples, methyl bromide recovery was 96.5 percent for all samples.

A total of 601 air samples were collected from all three sampling locations for the 2011 - 2013 calendar years. Each air sample was analyzed for 1,3-dichloropropene and methyl bromide. A total of 1,202 analyses were performed for all three sampling locations for the 2011-2013 calendar years. (Note: 1,3-dichloropropene is analyzed by measuring the concentration of both its *cis*- and *trans*- isomers and then combining the results to obtain a complete 1,3-dichloropropene concentration. In this memorandum, one analysis refers to the combination of the two individual *cis*- and *trans*- isomer concentration measurement for a particular air sample.) Samples from Santa Maria and Camarillo were collected starting 8/10/2010, while samples from Watsonville were first collected on 11/5/2011.

Of the 1,202 analyses for both methyl bromide and 1,3-dichloropropene, 870 (72.4%) contained no detectable amount and were below the RL. Of the 1,202 analyses, 332 (27.6%) contained detections above the RL. Table 3 lists the number of detections for both 1,3-dichloropropene and methyl bromide at each sampling location. For 1,3-dichloropropene, Santa Maria has a percentage of detections of 20.5%, followed by Watsonville with a four-year combined percentage of detections of 17.1%. Similarly, for methyl bromide, Santa Maria has a percentage of detections of 43.2%, followed by Camarillo/Oxnard with a four-year combined percentage of detections of 34.4%.

Table 3. Total number of detections for sampling years 2010 – 2013 by sampling location.

Location	Number of possible detections	Total number of detections	Percent of detections (%)
1,3-Dichloropropene			
Santa Maria	234	48	20.5
Watsonville	146	25	17.1
Camarillo/Oxnard	221	34	15.4
Methyl Bromide			
Santa Maria	234	101	43.2
Camarillo/Oxnard	221	76	34.4
Watsonville	146	49	33.6

Table 4 contains yearly comparisons for the three air sampling locations from 2010 – 2013 for 1,3-dichloropropene and methyl bromide. In 2013, Watsonville contained the highest percentage of detections of 21.1% for 1,3-dichloropropene samples out of all three sampling locations, while Santa Maria contained the highest percentage of detections of 35.6% for methyl bromide samples out of all three sampling locations for 2013.

Table 4. Comparisons of detections by sampling location and sampling year.

Location	2010		2011		2012		2013	
	Possible detections	Percentage of detections (%)	Possible detections	Percentage of detections (%)	Possible detections	Percentage of detections (%)	Possible detections	Percentage of detections (%)
1,3-Dichloropropene								
Camarillo/Oxnard	19†	31.6	61	16.4	71	9.9	70	15.7
Santa Maria	21†	28.6	67	11.9	73	27.4	73	19.2
Watsonville	NA	NA	6‡	16.7	69	13.0	71	21.1
Methyl Bromide								
Camarillo/Oxnard	19†	47.4	61	62.3	71	26.8	70	14.3
Santa Maria	21†	90.5	67	46.3	73	34.2	73	35.6
Watsonville	NA	NA	6‡	16.7	69	37.7	71	31.0

† Sampling started on 8/11/2010; ‡ Sampling started on 11/5/2011

Acute exposure: Table 5 presents the highest one-day concentration at all three sampling locations for both 1,3-dichloropropene and methyl bromide. The highest 1-day concentration detected for 1,3-dichloropropene for all sampling years was 6.4 ppb at Camarillo/Oxnard on August 2012. This concentration was approximately 5 times below the acute screening level of 35 ppb. Figure 2 shows the one-day 1,3-dichloropropene concentrations from all three sampling locations over time.

The highest 1-day concentration detected for methyl bromide for all sampling years was 3.8 ppb at Santa Maria on September 2011. This concentration was approximately 50 times below the acute regulatory target of 210 ppb. Figure 3 shows the one-day methyl bromide concentrations from all three sampling locations over time.

Table 5. Highest one-day concentration by sampling location.

Location	Highest 1-day concentration (ppb)	Acute Screening Level (ppb)	Acute Regulatory Target (ppb)
1,3-Dichloropropene			
Camarillo/Oxnard	6.4	35	NA
Santa Maria	5.0	35	NA
Watsonville	2.8	35	NA
Methyl Bromide			
Santa Maria	3.8	NA	210
Camarillo/Oxnard	3.4	NA	210
Watsonville	1.8	NA	210

Highest one-day concentration

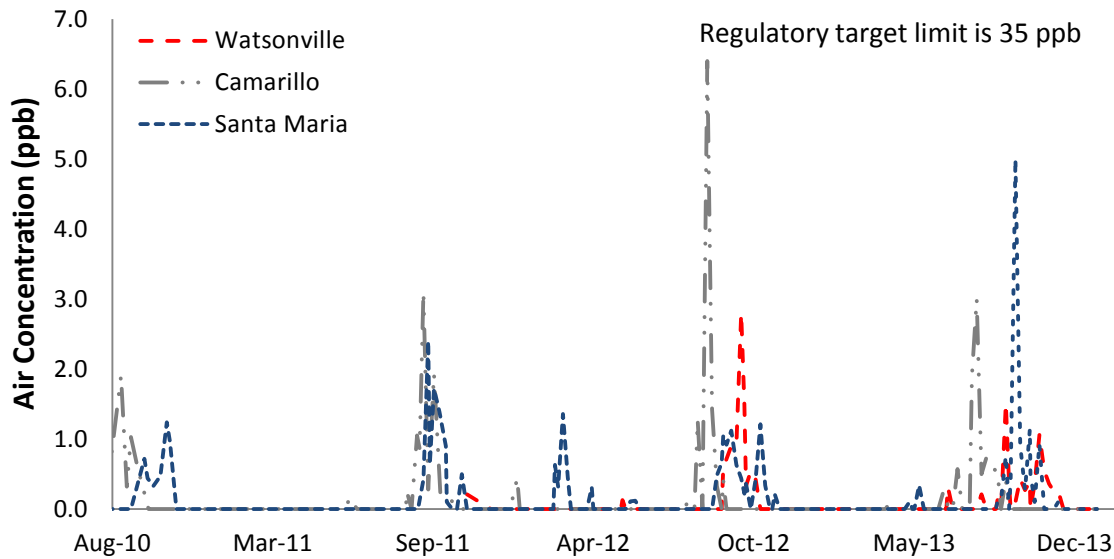


Figure 2. Highest 1-day (acute) concentrations of 1,3-dichloropropene detected for the three monitoring locations for sampling years 2010 - 2013.

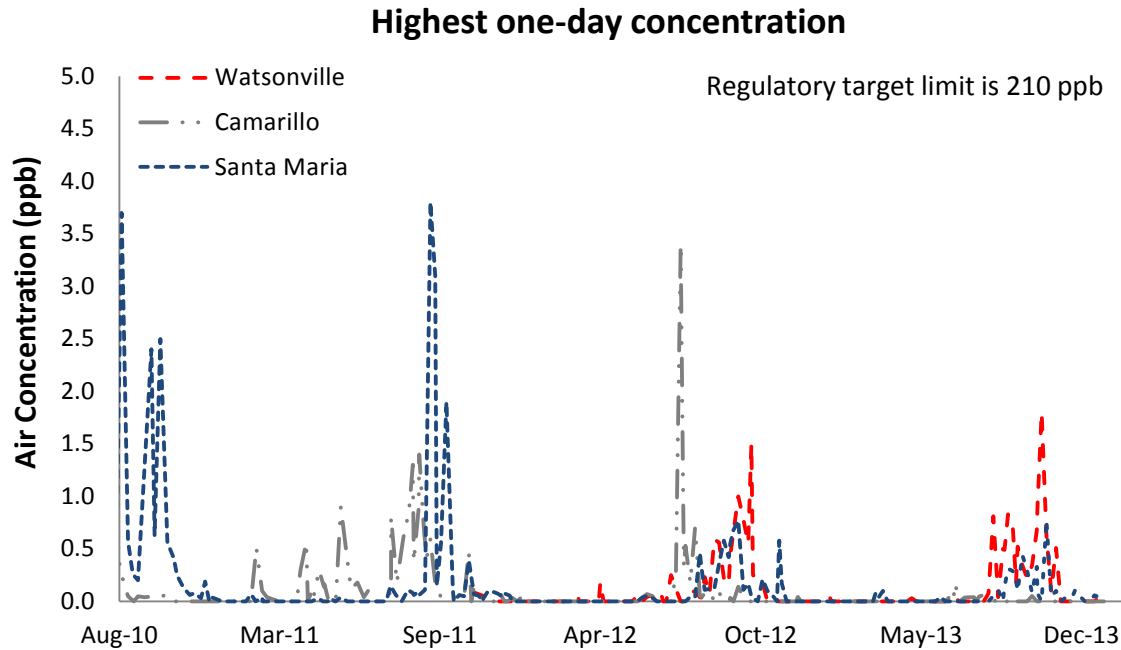


Figure 3. Highest 1-day (acute) concentrations of methyl bromide detected for the three monitoring locations for sampling years 2010 - 2013.

Yearly comparisons of highest 1-day concentrations for all three locations are listed on Table 6. Highest 1-day 1,3-dichloropropene concentration in Watsonville for 2013 was ten times higher than the highest 1-day 1,3-dichloropropene concentration detected in 2012. Overall, two out of the three sampling locations contained a higher 1-day concentration in 2013 as compared to sampling years 2010 – 2012.

Santa Maria had a highest 1-day methyl bromide concentration in 2010 of 3.70 ppb followed by a highest 1-day methyl bromide concentration of 3.80 ppb in 2011. However, for sample years 2012 and 2013, the highest 1-day concentration of methyl bromide was 0.77 ppb or 5 times less than the maximum concentration reached in 2011.

Table 6. Comparisons of detections by sampling location.

Location	2010 Highest 1-day concentration (ppb)	2011 Highest 1-day concentration (ppb)	2012 Highest 1-day concentration (ppb)	2013 Highest 1-day concentration (ppb)
1,3-Dichloropropene				
Camarillo/Oxnard	1.90	3.10	6.40	3.00
Watsonville	NA	0.21	2.80	1.51
Santa Maria	1.24	2.40	1.36	5.00
Methyl Bromide				
Camarillo/Oxnard	0.52	1.40	3.40	0.17
Watsonville	NA	0.08	1.50	1.80
Santa Maria	3.70	3.80	0.77	0.77

Subchronic exposure: Table 7 shows the highest 4-week average concentrations for 1,3-dichloropropene at all three sampling locations. The highest 4-week rolling average 1,3-dichloropropene concentration was found in Camarillo/Oxnard with a concentration of 1.4 ppb. No 1,3-dichloropropene 4-week rolling average concentrations from any sampling location exceeded the screening level for the subchronic exposure (4-week) periods. Figure 4 presents the highest 4-week 1,3-dichloropropene concentrations measured in all three sampling locations compared with the subchronic screening level of 25 ppb.

The highest 4-week rolling average concentration for methyl bromide was found in Santa Maria with a concentration of 1.60 ppb. No methyl bromide 4-week rolling average concentrations from any sampling location exceeded regulatory target for the subchronic exposure (4-week) period of 5 ppb. Figure 5 presents the highest 4-week methyl bromide concentrations measured in all three sampling locations compared with the subchronic regulatory target of 5 ppb. The 4-week rolling average concentrations were calculated using one-half the RL for samples with no detectable amount. A four-week rolling average concentration refers to the average of a moving 4-week period (i.e., average of weeks 1, 2, 3, and 4; average of weeks 2, 3, 4, and 5, etc.).

Table 7. The highest rolling 4-week concentrations by sampling location.

Location	Highest 4-wk rolling concentration (ppb)	Subchronic Screening Level (ppb)	Subchronic Regulatory Target (ppb)
1,3-Dichloropropene			
Camarillo/Oxnard	1.4	25	NA
Watsonville	1.3	25	NA
Santa Maria	1.3	25	NA
Methyl Bromide			
Santa Maria	1.60	NA	5
Camarillo/Oxnard	0.87	NA	5
Watsonville	0.87	NA	5

Yearly comparisons of the highest 4-week rolling concentrations for all sampling locations are listed on Table 8. In 2012, Camarillo/Oxnard had the highest 4-week rolling 1,3-dichloropropene concentration compared to any of the other sampling location for any sampling year included in this report. Similarly, in 2011, Santa Maria had the highest 4-week rolling concentration for methyl bromide compared to any of the other sampling location or sampling years. None of the highest 4-wk rolling concentrations for either 1,3-dichloropropene or methyl bromide exceeded their subchronic regulatory target of 25 ppb and 5 ppb, respectively, for any sampling year.

Table 8. Comparison of highest 4-week rolling concentrations by sampling location.

Location	2010 Highest 4-wk rolling concentration (ppb)	2011 Highest 4-wk rolling concentration (ppb)	2012 Highest 4-wk rolling concentration (ppb)	2013 Highest 4-wk rolling concentration (ppb)
1,3-Dichloropropene				
Camarillo/Oxnard	1.10	1.24	1.42	1.03
Santa Maria	0.75	1.25	0.76	1.26
Watsonville	NA	0.09	1.34	0.52
Methyl Bromide				
Camarillo/Oxnard	0.35	0.87	0.78	0.05
Santa Maria	1.52	1.60	0.50	0.29
Watsonville	NA	0.04	0.85	0.87

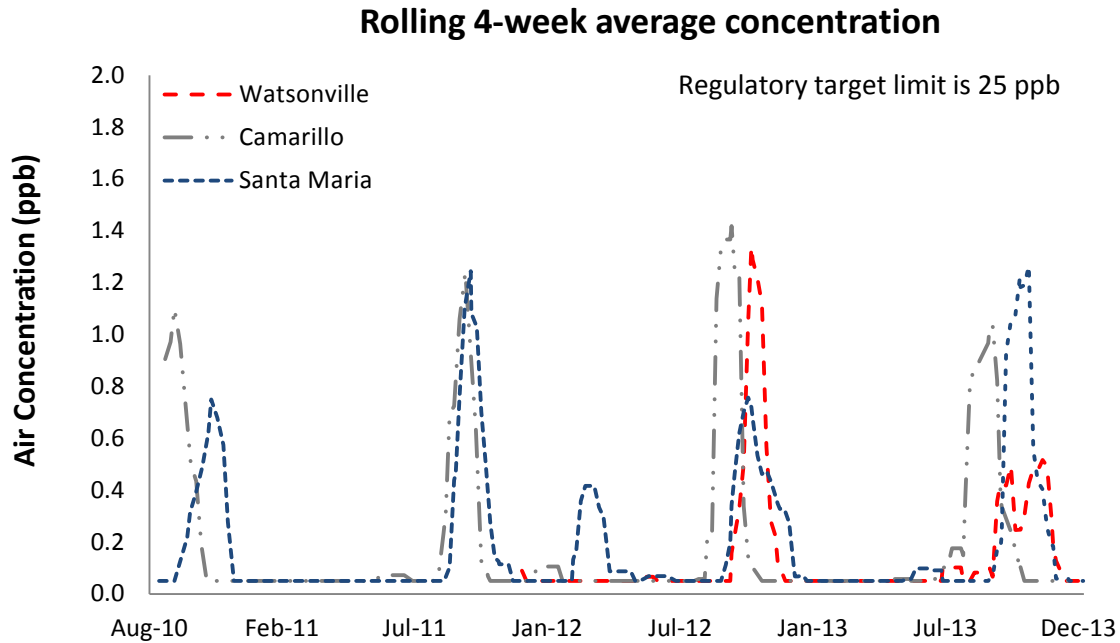


Figure 3. Rolling 4-week average (subchronic) concentrations of 1,3-dichloropropene detected for the three monitoring locations. Concentrations are presented as rolling or moving averages (i.e., average of weeks 1,2,3, and 4; average of weeks 2,3,4, and 5, etc.).

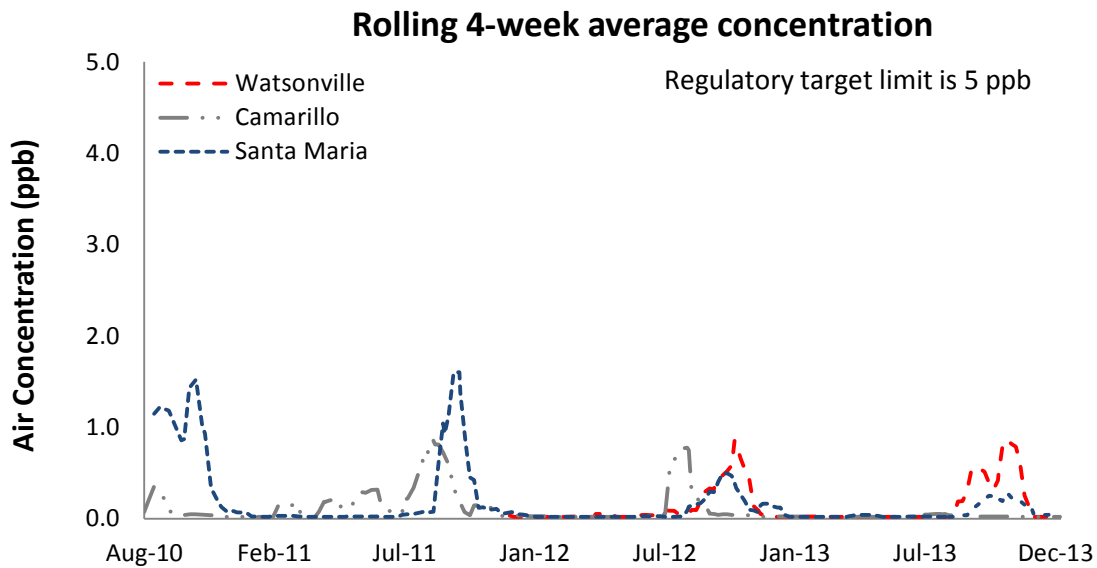


Figure 4. Rolling 4-week average (subchronic) concentrations of methyl bromide detected for the three monitoring locations. Concentrations are presented as rolling or moving averages (i.e., average of weeks 1,2,3, and 4; average of weeks 2,3,4, and 5, etc.).

Table 9 shows the 1-year average concentrations for all sampling locations for 1,3-dichloropropene and methyl bromide in 2013. In 2013, the highest overall 1-year average 1,3-dichloropropene concentration measured was 0.19 ppb at Santa Maria. The highest overall 1-year average methyl bromide concentration measured was 0.45 ppb at Watsonville in 2013.

Table 9. 1-year average air concentrations by location for sampling year 2013.

Location	1-year average concentration (ppb)	Chronic Screening Level (ppb)*
1,3-Dichloropropene		
Santa Maria	0.19	25
Camarillo/Oxnard	0.17	25
Watsonville	0.13	25
Methyl Bromide		
Watsonville	0.45	1.0
Santa Maria	0.15	1.0
Camarillo/Oxnard	0.06	1.0

* Screening level for possible long-term health effects other than cancer

Camarillo/Oxnard had a higher overall 1-year average concentration for 1,3-dichloropropene (0.22 ppb) than any of the other sampling locations. In 2010, Camarillo/Oxnard had the highest 1-year average concentration of 1,3-dichloropropene (0.33 ppb) than any of the two other sampling locations for any sampling year (Table 10). For methyl bromide, Santa Maria had both the highest overall average concentration and the highest individual 1-year concentration (2010) out of all sampling locations with methyl bromide concentrations of 0.24 ppb and 0.62 ppb, respectively.

Table 10. Comparisons of detections by sampling location.

Location	2010 1-year average concentration (ppb)	2011 1-year average concentration (ppb)	2012 1-year average concentration (ppb)	2013 1-year average concentration (ppb)	2010 - 2013 Average concentration (ppb)
1,3-Dichloropropene					
Camarillo/Oxnard	0.33*	0.19	0.19	0.17	0.20
Santa Maria	0.23*	0.16	0.19	0.19	0.19
Watsonville	NA	0.08**	0.16	0.13	0.14
Methyl Bromide					
Santa Maria	0.62*	0.18	0.09	0.06	0.16
Camarillo/Oxnard	0.08*	0.22	0.10	0.02	0.11
Watsonville	NA	0.03**	0.12	0.15	0.13

*Sampling started on 8/11/2010

**Sampling started on 11/5/201

Cancer Risk Estimates

1,3-dichloropropene is classified as a probable human carcinogen by U.S.EPA and is listed as a carcinogen under Proposition 65. The risk of cancer from exposure to a chemical is determined from the cancer potency of the chemical and the human exposure to the chemical. Cancer potency is expressed in the units of (mg/kg-day)⁻¹. Cancer risk is expressed as a probability for the occurrence of cancer (e.g., 1 in 1,000,000 or 10⁻⁶, 1 in 100,000 or 1.0E-05, etc). It is a standard default assumption that exposure to a carcinogen takes place over a lifetime, so the default respiratory rate for an adult is used (0.28 m³/kg/day) over 70 years. DPR has calculated a cancer potency of 0.055 (mg/kg-day)⁻¹. The risk is then calculated as (cancer potency) X (chronic air concentration) X (respiratory rate). The yearly concentration is calculated as an average of the monthly averages of the measured concentrations over the year of sampling. Cancer risk estimates for 1,3-dichloropropene were calculated by treating samples with no detectable concentrations as having concentrations of ½ Reporting Limit (RL).

Table 11 lists the 2013 average 1,3-dichloropropene air concentrations by sample location compared to the DPR’s regulatory target for cancer risk. In 2013, two out of the three sampling locations exceeded DPR’s regulatory target for cancer risk of 0.14 ppb. Table 12 shows 1,3-dichloropropene cancer risk estimate comparisons for all sampling locations for sampling years 2010, 2011, 2012, and 2013. Risk in the range of 1.0E-05 or less is generally considered to be at the limit of what is considered to be negligible. DPR has set a cancer risk regulatory goal of 1.0E-05 for 1,3-dichloropropene. Camarillo/Oxnard had the higher average cancer risk for sampling years 2010-2013 on average with a value of 1.6E-05. Overall, two of the three locations had an average cancer risk estimate that exceeded DPR’s regulatory goal for cancer risk, assuming these concentrations are representative of a 70-year lifetime exposure.

Table 11. 1,3-dichloropropene 1-year average air concentrations by location for sampling year 2013 compared to DPR’s regulatory target for cancer risk.

Location	1-year average concentration (ppb)	Regulatory Target for Cancer Risk (ppb)
Santa Maria	0.19	0.14*
Camarillo/Oxnard	0.17	0.14
Watsonville	0.13	0.14

*Average concentration for 70-year lifetime

†Methyl bromide is not suspected of causing cancer

Table 12. 1,3-dichloropropene Cancer risk estimate comparisons for all sampling locations for sampling years 2010, 2011, 2012, and 2013.

Location	2010 Cancer Risk Estimate	2011 Cancer Risk Estimate	2012 Cancer Risk Estimate	2013 Cancer Risk Estimate	Average Cancer Risk Estimate
Camarillo/Oxnard	2.4E-05	1.2E-05	1.5E-05	1.3E-05	1.6E-05
Santa Maria	1.5E-05	1.0E-05	1.4E-05	1.4E-05	1.3E-05
Watsonville	NA	9.1E-06	1.1E-05	9.0E-06	9.5E-06

†Cancer risk estimates were calculated using 1/2RL for samples with no detectable concentrations

DISCUSSION AND CONCLUSIONS

Since monitoring began in 2010, none of the detected concentrations exceeded DPR's screening levels or regulatory targets for acute exposure (1-day), subchronic exposure (4-week), or chronic exposure (1-year) for either methyl bromide or 1,3-dichloropropene. The 1,3-dichloropropene concentrations were generally the same throughout the sample years 2010, 2011, 2012 and 2013. The time periods and communities with higher concentrations are consistent with historical use patterns. For methyl bromide, concentrations appear to be on a decreasing pattern as concentrations in 2010 and 2011 are generally higher than concentrations measured in 2013 for two of the three sampling locations. Methyl bromide concentrations in Watsonville have increased each year starting 2011 throughout 2013. However, the highest 1-year average methyl bromide concentrations in Watsonville are still 45% lower than the DPR's chronic regulatory target of 1.0 ppb.

Since 1,3-dichloropropene exceeded the regulatory goal for cancer risk, DPR is conducting a more detailed evaluation for this pesticide. The evaluation includes analysis of pesticide use data, such as amount, date, and location of applications, as well analysis of wind speed, wind direction and other weather conditions during the time high concentrations were detected. DPR is also updating its risk assessment for 1,3-dichloropropene, which should be complete in approximately one year. In the meantime, DPR has taken action to reduce 1,3-dichloropropene exposure. DPR implemented a use limit (township cap) for 1,3-dichloropropene in 1999 to control cancer risk. However, DPR approved waivers to the cap for several townships each year. The high concentrations detected occurred in townships or adjacent to townships where DPR granted waivers to the township cap. Based on the monitoring results, DPR suspended approval of the township cap waivers in February 2014.

Although the results of the air monitoring cannot be ignored, there are several factors that create uncertainty about their use as an indicator of cancer risk:

- The air concentrations reflected in the monitoring are approximately three-year averages, while the regulatory goal is an average for a 70-year lifetime.
- Monitoring did not occur continuously, so the air concentrations during the unmonitored periods are unknown. ARB's yearly concentrations are based on one day of sampling every six days.
- ARB's reporting limit was 0.1 ppb DPR normally assumes that samples with no detectable amount have a concentration of one-half the reporting limit, 0.05 ppb for ARB's samples. Other assumptions would result in different average air concentration estimates, particularly since all of ARB's sites have more than 75 percent of the samples with no detectable amount.

At DPR's request, ARB will continue to monitor for 1,3-dichloropropene and methyl bromide through at least 2014. In addition, ARB will also monitor for chloropicrin at these same sites in 2014 during the peak use season of August – October. The results of 2014 monitoring should be available in Summer 2015.

cc: Mr. Chris Reardon, CDPR Chief Deputy Director
Mr. Charles Andrews, CDPR Associate Director
Ms. Polly Frenkel, CDPR Chief Counsel
Mr. David Duncan, CDPR Branch Chief

APPENDIX A
RESULTS OF INDIVIDUAL SAMPLES FOR 2010 - 2013

Sampling Location	Sample Number	Date Started	Date Ended	Methyl Bromide		1,3-Dichloropropene	
				Detected Concentration (ppb)	Reporting Limit (ppb)	Detected Concentration (ppb)	Reporting Limit (ppb)
Santa Maria	TX010345	8/11/2010	8/12/2010	0.28	0.03	ND	0.1
Santa Maria	TX010365	8/15/2010	8/16/2010	0.34	0.03	ND	0.1
Santa Maria	TX010344	8/16/2010	8/17/2010	0.28	0.03	ND	0.1
Santa Maria	TX010391	8/23/2010	8/24/2010	3.70	0.03	ND	0.1
Santa Maria	TX010415	8/31/2010	9/1/2010	0.57	0.03	ND	0.1
Santa Maria	TX010424	9/6/2010	9/7/2010	0.26	0.03	ND	0.1
Santa Maria	TX010428	9/12/2010	9/13/2010	0.20	0.03	ND	0.1
Santa Maria	TX010475	9/29/2010	9/30/2010	2.40	0.03	0.72	0.1
Santa Maria	TX010477	10/3/2010	10/4/2010	0.63	0.03	0.44	0.1
Santa Maria	TX010489	10/10/2010	10/11/2010	2.50	0.03	0.33	0.1
Santa Maria	TX010513	10/19/2010	10/20/2010	0.56	0.03	0.47	0.1
Santa Maria	TX010529	10/27/2010	10/28/2010	0.41	0.03	1.24	0.1
Santa Maria	TX010530	10/31/2010	11/1/2010	0.25	0.03	0.96	0.1
Santa Maria	TX010545	11/8/2010	11/9/2010	0.13	0.03	ND	0.1
Santa Maria	TX010560	11/16/2010	11/17/2010	0.06	0.03	ND	0.1
Santa Maria	TX010587	11/22/2010	11/23/2010	0.08	0.03	ND	0.1
Santa Maria	TX010588	11/30/2010	12/1/2010	0.03	0.03	ND	0.1
Santa Maria	TX010596	12/5/2010	12/6/2010	0.19	0.03	ND	0.1
Santa Maria	TX010628	12/10/2010	12/11/2010	ND	0.03	ND	0.1
Santa Maria	TX010612	12/13/2010	12/14/2010	0.04	0.03	ND	0.1
Santa Maria	TX010639	12/26/2010	12/27/2010	ND	0.03	ND	0.1
Santa Maria	TX010649	1/2/2011	1/3/2011	ND	0.03	ND	0.1
Santa Maria	TX010665	1/10/2011	1/11/2011	ND	0.03	ND	0.1
Santa Maria	TX010679	1/17/2011	1/18/2011	ND	0.03	ND	0.1
Santa Maria	TX010692	1/25/2011	1/26/2011	ND	0.03	ND	0.1
Santa Maria	TX010700	1/31/2011	2/1/2011	0.07	0.03	ND	0.1
Santa Maria	TX010706	2/6/2011	2/7/2011	ND	0.03	ND	0.1
Santa Maria	TX010724	2/14/2011	2/15/2011	0.04	0.03	ND	0.1
Santa Maria	TX010726	2/15/2011	2/16/2011	ND	0.03	ND	0.1
Santa Maria	TX010735	2/21/2011	2/22/2011	ND	0.03	ND	0.1
Santa Maria	TX010750	2/28/2011	3/1/2011	ND	0.03	ND	0.1
Santa Maria	TX010765	3/7/2011	3/8/2011	ND	0.03	ND	0.1
Santa Maria	TX010772	3/13/2011	3/14/2011	ND	0.03	ND	0.1
Santa Maria	TX010776	3/15/2011	3/16/2011	ND	0.03	ND	0.1
Santa Maria	TX010790	3/20/2011	3/21/2011	ND	0.03	ND	0.1
Santa Maria	TX010801	3/28/2011	3/29/2011	ND	0.03	ND	0.1
Santa Maria	TX010815	4/3/2011	4/4/2011	ND	0.03	ND	0.1
Santa Maria	TX010818	4/10/2011	4/11/2011	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 16

Santa Maria	TX010838	4/12/2011	4/13/2011	ND	0.03	ND	0.1
Santa Maria	TX010833	4/17/2011	4/18/2011	ND	0.03	ND	0.1
Santa Maria	TX010854	4/25/2011	4/26/2011	0.03	0.03	ND	0.1
Santa Maria	TX010866	5/1/2011	5/2/2011	ND	0.03	ND	0.1
Santa Maria	TX010882	5/8/2011	5/9/2011	ND	0.03	ND	0.1
Santa Maria	TX010888	5/10/2011	5/11/2011	0.03	0.03	ND	0.1
Santa Maria	TX010900	5/16/2011	5/17/2011	ND	0.03	ND	0.1
Santa Maria	TX010901	5/17/2011	5/18/2011	ND	0.03	ND	0.1
Santa Maria	TX010909	5/23/2011	5/24/2011	0.04	0.03	ND	0.1
Santa Maria	TX010921	5/31/2011	6/1/2011	ND	0.03	ND	0.1
Santa Maria	TX010929	6/5/2011	6/6/2011	ND	0.03	ND	0.1
Santa Maria	TX010950	6/13/2011	6/14/2011	ND	0.03	ND	0.1
Santa Maria	TX010955	6/19/2011	6/20/2011	ND	0.03	ND	0.1
Santa Maria	TX010963	6/21/2011	6/22/2011	ND	0.03	ND	0.1
Santa Maria	TX010975	6/26/2011	6/27/2011	ND	0.03	ND	0.1
Santa Maria	TX010988	7/4/2011	7/5/2011	ND	0.03	ND	0.1
Santa Maria	TX011008	7/13/2011	7/14/2011	ND	0.03	ND	0.1
Santa Maria	TX011014	7/18/2011	7/19/2011	ND	0.03	ND	0.1
Santa Maria	TX011016	7/19/2011	7/20/2011	ND	0.03	ND	0.1
Santa Maria	TX011020	7/24/2011	7/25/2011	0.15	0.03	ND	0.1
Santa Maria	TX011038	7/31/2011	8/1/2011	0.06	0.03	ND	0.1
Santa Maria	TX011047	8/7/2011	8/8/2011	ND	0.03	ND	0.1
Santa Maria	TX011059	8/15/2011	8/16/2011	0.11	0.03	ND	0.1
Santa Maria	TX011072	8/21/2011	8/22/2011	0.08	0.03	ND	0.1
Santa Maria	TX011073	8/22/2011	8/23/2011	0.06	0.03	ND	0.1
Santa Maria	TX011090	8/28/2011	8/29/2011	0.09	0.03	ND	0.1
Santa Maria	TX011088	8/29/2011	8/30/2011	0.06	0.03	ND	0.1
Santa Maria	TX011111	9/5/2011	9/6/2011	0.11	0.03	ND	0.1
Santa Maria	TX011131	9/12/2011	9/13/2011	3.80	0.03	0.42	0.1
Santa Maria	TX011138	9/18/2011	9/19/2011	3.10	0.03	2.4	0.1
Santa Maria	TX011142	9/20/2011	9/21/2011	0.15	0.03	0.64	0.1
Santa Maria	TX011151	9/25/2011	9/26/2011	0.55	0.03	1.72	0.1
Santa Maria	TX011164	10/2/2011	10/3/2011	1.9	0.03	1.39	0.1
Santa Maria	TX011181	10/10/2011	10/11/2011	0.12	0.03	0.9	0.1
Santa Maria	TX011183	10/11/2011	10/12/2011	ND	0.03	0.1	0.1
Santa Maria	TX011200	10/18/2011	10/19/2011	0.06	0.03	ND	0.1
Santa Maria	TX011208	10/24/2011	10/25/2011	0.05	0.03	ND	0.1
Santa Maria	TX011216	10/30/2011	10/31/2011	0.39	0.03	0.5	0.1
Santa Maria	TX011232	11/5/2011	11/6/2011	0.07	0.03	ND	0.1
Santa Maria	TX011241	11/11/2011	11/12/2011	0.06	0.03	ND	0.1
Santa Maria	TX011249	11/16/2011	11/17/2011	ND	0.03	ND	0.1
Santa Maria	TX011255	11/17/2011	11/18/2011	0.03	0.03	ND	0.1
Santa Maria	TX011266	11/23/2011	11/24/2011	0.10	0.03	ND	0.1
Santa Maria	TX011279	11/29/2011	11/30/2011	0.09	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 17

Santa Maria	TX011285	12/5/2011	12/6/2011	0.07	0.03	ND	0.1
Santa Maria	TX011309	12/11/2011	12/12/2011	0.04	0.03	ND	0.1
Santa Maria	TX011314	12/13/2011	12/14/2011	0.08	0.03	ND	0.1
Santa Maria	TX011331	12/20/2011	12/21/2011	0.05	0.03	ND	0.1
Santa Maria	TX011335	12/23/2011	12/24/2011	ND	0.03	ND	0.1
Santa Maria	TX011343	12/29/2011	12/30/2011	ND	0.03	ND	0.1
Santa Maria	TX011360	1/4/2012	1/5/2012	ND	0.03	ND	0.1
Santa Maria	TX011368	1/10/2012	1/11/2012	ND	0.03	ND	0.1
Santa Maria	TX011379	1/12/2012	1/13/2012	ND	0.03	ND	0.1
Santa Maria	TX011391	1/16/2012	1/17/2012	ND	0.03	ND	0.1
Santa Maria	TX011404	1/22/2012	1/23/2012	ND	0.03	ND	0.1
Santa Maria	TX011416	1/31/2012	2/1/2012	ND	0.03	ND	0.1
Santa Maria	TX011428	2/3/2012	2/4/2012	ND	0.03	ND	0.1
Santa Maria	TX011442	2/9/2012	2/10/2012	ND	0.03	ND	0.1
Santa Maria	TX011451	2/15/2012	2/16/2012	ND	0.03	ND	0.1
Santa Maria	TX011471	2/21/2012	2/22/2012	ND	0.03	ND	0.1
Santa Maria	TX011469	2/23/2012	2/24/2012	ND	0.03	0.63	0.1
Santa Maria	TX011479	2/27/2012	2/28/2012	ND	0.03	0.32	0.1
Santa Maria	TX011497	3/4/2012	3/5/2012	ND	0.03	1.36	0.1
Santa Maria	TX011517	3/10/2012	3/11/2012	ND	0.03	0.46	0.1
Santa Maria	TX011515	3/14/2012	3/15/2012	ND	0.03	ND	0.1
Santa Maria	TX011532	3/16/2012	3/17/2012	ND	0.03	ND	0.1
Santa Maria	TX011537	3/22/2012	3/23/2012	ND	0.03	ND	0.1
Santa Maria	TX011560	3/28/2012	3/29/2012	ND	0.03	ND	0.1
Santa Maria	TX011577	4/3/2012	4/4/2012	ND	0.03	ND	0.1
Santa Maria	TX011588	4/9/2012	4/10/2012	ND	0.03	0.31	0.1
Santa Maria	TX011586	4/11/2012	4/12/2012	ND	0.03	ND	0.1
Santa Maria	TX011596	4/15/2012	4/16/2012	ND	0.03	ND	0.1
Santa Maria	TX011613	4/21/2012	4/22/2012	ND	0.03	ND	0.1
Santa Maria	TX011624	4/27/2012	4/28/2012	ND	0.03	ND	0.1
Santa Maria	TX011639	5/3/2012	5/4/2012	ND	0.03	ND	0.1
Santa Maria	TX011650	5/9/2012	5/10/2012	ND	0.03	ND	0.1
Santa Maria	TX011663	5/15/2012	5/16/2012	ND	0.03	ND	0.1
Santa Maria	TX011669	5/17/2012	5/18/2012	ND	0.03	ND	0.1
Santa Maria	TX011674	5/21/2012	5/22/2012	ND	0.03	ND	0.1
Santa Maria	TX011692	5/27/2012	5/28/2012	ND	0.03	0.11	0.1
Santa Maria	TX011696	6/2/2012	6/3/2012	0.04	0.03	0.12	0.1
Santa Maria	TX011716	6/8/2012	6/9/2012	0.05	0.03	ND	0.1
Santa Maria	TX011730	6/14/2012	6/15/2012	0.04	0.03	ND	0.1
Santa Maria	TX011743	6/20/2012	6/21/2012	ND	0.03	ND	0.1
Santa Maria	TX011759	6/26/2012	6/27/2012	ND	0.03	ND	0.1
Santa Maria	TX011762	6/28/2012	6/29/2012	ND	0.03	ND	0.1
Santa Maria	TX011770	7/2/2012	7/3/2012	ND	0.03	ND	0.1
Santa Maria	TX011777	7/8/2012	7/9/2012	ND	0.03	ND	0.1

Marylou Verder-Carlos
September 24, 2014
Page 18

Santa Maria	TX011795	7/14/2012	7/15/2012	ND	0.03	ND	0.1
Santa Maria	TX011808	7/20/2012	7/21/2012	ND	0.03	ND	0.1
Santa Maria	TX011811	7/24/2012	7/25/2012	ND	0.03	ND	0.1
Santa Maria	TX011821	7/26/2012	7/27/2012	ND	0.03	ND	0.1
Santa Maria	TX011829	8/1/2012	8/2/2012	0.04	0.03	ND	0.1
Santa Maria	TX011842	8/7/2012	8/8/2012	0.04	0.03	ND	0.1
Santa Maria	TX011852	8/13/2012	8/14/2012	0.46	0.03	ND	0.1
Santa Maria	TX011868	8/15/2012	8/16/2012	0.32	0.03	ND	0.1
Santa Maria	TX011880	8/19/2012	8/20/2012	0.11	0.03	ND	0.1
Santa Maria	TX011887	8/25/2012	8/26/2012	0.12	0.03	ND	0.1
Santa Maria	TX011900	8/31/2012	9/1/2012	0.12	0.03	ND	0.1
Santa Maria	TX011918	9/6/2012	9/7/2012	0.36	0.03	ND	0.1
Santa Maria	TX011927	9/12/2012	9/13/2012	0.58	0.03	0.48	0.1
Santa Maria	TX011946	9/18/2012	9/19/2012	0.42	0.03	0.66	0.1
Santa Maria	TX011938	9/20/2012	9/21/2012	0.55	0.03	1.05	0.1
Santa Maria	TX011955	9/24/2012	9/25/2012	0.68	0.03	0.92	0.1
Santa Maria	TX011968	9/30/2012	10/1/2012	0.77	0.03	1.12	0.1
Santa Maria	TX011977	10/6/2012	10/7/2012	0.11	0.03	0.63	0.1
Santa Maria	TX011988	10/12/2012	10/13/2012	0.17	0.03	0.44	0.1
Santa Maria	TX011995	10/16/2012	10/17/2012	0.05	0.03	0.22	0.1
Santa Maria	TX012010	10/18/2012	10/19/2012	0.03	0.03	0.36	0.1
Santa Maria	TX012027	10/24/2012	10/25/2012	ND	0.03	ND	0.1
Santa Maria	TX012029	10/30/2012	10/31/2012	0.21	0.03	0.42	0.1
Santa Maria	TX012041	11/5/2012	11/6/2012	0.10	0.03	1.21	0.1
Santa Maria	TX012058	11/11/2012	11/12/2012	0.06	0.03	0.34	0.1
Santa Maria	TX012069	11/17/2012	11/18/2012	ND	0.03	ND	0.1
Santa Maria	TX012073	11/20/2012	11/21/2012	0.58	0.03	ND	0.1
Santa Maria	TX012084	11/23/2012	11/24/2012	0.17	0.03	0.21	0.1
Santa Maria	TX012106	11/29/2012	11/30/2012	ND	0.03	ND	0.1
Santa Maria	TX012112	12/5/2012	12/6/2012	ND	0.03	ND	0.1
Santa Maria	TX012130	12/11/2012	12/12/2012	ND	0.03	ND	0.1
Santa Maria	TX012127	12/13/2012	12/14/2012	ND	0.03	ND	0.1
Santa Maria	TX012137	12/17/2012	12/18/2012	ND	0.03	ND	0.1
Santa Maria	TX012145	12/23/2012	12/24/2012	ND	0.03	ND	0.1
Santa Maria	TX012166	12/29/2012	12/30/2012	ND	0.03	ND	0.1
Santa Maria	TX012172	1/4/2013	1/5/2013	ND	0.03	ND	0.1
Santa Maria	TX012189	1/10/2013	1/11/2013	ND	0.03	ND	0.1
Santa Maria	TX012193	1/16/2013	1/17/2013	ND	0.03	ND	0.1
Santa Maria	TX012220	1/22/2013	1/23/2013	ND	0.03	ND	0.1
Santa Maria	TX012213	1/24/2013	1/25/2013	ND	0.03	ND	0.1
Santa Maria	TX012232	1/28/2013	1/29/2013	ND	0.03	ND	0.1
Santa Maria	TX012248	2/3/2013	2/4/2013	ND	0.03	ND	0.1
Santa Maria	TX012260	2/9/2013	2/10/2013	ND	0.03	ND	0.1
Santa Maria	TX012266	2/12/2013	2/13/2013	ND	0.03	ND	0.1

Marylou Verder-Carlos
September 24, 2014
Page 19

Santa Maria	TX012282	2/15/2013	2/16/2013	ND	0.03	ND	0.1
Santa Maria	TX012290	2/21/2013	2/22/2013	ND	0.03	ND	0.1
Santa Maria	TX012302	2/27/2013	2/28/2013	ND	0.03	ND	0.1
Santa Maria	TX012308	3/5/2013	3/6/2013	ND	0.03	ND	0.1
Santa Maria	TX012324	3/11/2013	3/12/2013	ND	0.03	ND	0.1
Santa Maria	TX012328	3/17/2013	3/18/2013	ND	0.03	ND	0.1
Santa Maria	TX012344	3/20/2013	3/21/2013	0.08	0.03	ND	0.1
Santa Maria	TX012356	3/23/2013	3/24/2013	0.03	0.03	ND	0.1
Santa Maria	TX012365	3/29/2013	3/30/2013	0.10	0.03	ND	0.1
Santa Maria	TX012389	4/4/2013	4/5/2013	ND	0.03	ND	0.1
Santa Maria	TX012400	4/10/2013	4/11/2013	ND	0.03	ND	0.1
Santa Maria	TX012411	4/16/2013	4/17/2013	ND	0.03	ND	0.1
Santa Maria	TX012428	4/22/2013	4/23/2013	ND	0.03	ND	0.1
Santa Maria	TX012431	4/24/2013	4/25/2013	ND	0.03	ND	0.1
Santa Maria	TX012443	4/28/2013	4/29/2013	ND	0.03	ND	0.1
Santa Maria	TX012447	5/4/2013	5/5/2013	ND	0.03	ND	0.1
Santa Maria	TX012466	5/10/2013	5/11/2013	ND	0.03	0.1	0.1
Santa Maria	TX012471	5/14/2013	5/15/2013	ND	0.03	ND	0.1
Santa Maria	TX012486	5/16/2013	5/17/2013	ND	0.03	ND	0.1
Santa Maria	TX012496	5/22/2013	5/23/2013	ND	0.03	0.34	0.1
Santa Maria	TX012505	5/28/2013	5/29/2013	ND	0.03	ND	0.1
Santa Maria	TX012523	6/3/2013	6/4/2013	ND	0.03	ND	0.1
Santa Maria	TX012525	6/9/2013	6/10/2013	0.04	0.03	ND	0.1
Santa Maria	TX012547	6/15/2013	6/16/2013	ND	0.03	ND	0.1
Santa Maria	TX012559	6/21/2013	6/22/2013	ND	0.03	ND	0.1
Santa Maria	TX012565	6/25/2013	6/26/2013	ND	0.03	ND	0.1
Santa Maria	TX012580	6/27/2013	6/28/2013	ND	0.03	ND	0.1
Santa Maria	TX012596	7/3/2013	7/4/2013	ND	0.03	ND	0.1
Santa Maria	TX012597	7/9/2013	7/10/2013	ND	0.03	ND	0.1
Santa Maria	TX012619	7/15/2013	7/16/2013	ND	0.03	ND	0.1
Santa Maria	TX012634	7/21/2013	7/22/2013	ND	0.03	ND	0.1
Santa Maria	TX012627	7/24/2013	7/25/2013	ND	0.03	ND	0.1
Santa Maria	TX012639	7/27/2013	7/28/2013	ND	0.03	ND	0.1
Santa Maria	TX012654	8/2/2013	8/3/2013	ND	0.03	ND	0.1
Santa Maria	TX012676	8/8/2013	8/9/2013	ND	0.03	ND	0.1
Santa Maria	TX012682	8/14/2013	8/15/2013	0.05	0.03	ND	0.1
Santa Maria	TX012689	8/20/2013	8/21/2013	0.11	0.03	ND	0.1
Santa Maria	TX012706	8/26/2013	8/27/2013	ND	0.03	ND	0.1
Santa Maria	TX012711	8/28/2013	8/29/2013	0.14	0.03	0.11	0.1
Santa Maria	TX012719	9/1/2013	9/2/2013	0.31	0.03	0.13	0.1
Santa Maria	TX012735	9/7/2013	9/8/2013	0.29	0.03	0.76	0.1
Santa Maria	TX012471	9/11/2013	9/12/2013	0.2	0.03	ND	0.1
Santa Maria	TX012746.	9/13/2013	9/14/2013	0.10	0.03	0.41	0.1
Santa Maria	TX012761	9/19/2013	9/20/2013	0.44	0.03	5	0.1

Marylou Verder-Carlos
September 24, 2014
Page 20

Santa Maria	TX012781	9/25/2013	9/26/2013	0.29	0.03	0.91	0.1
Santa Maria	TX012786	10/1/2013	10/2/2013	0.08	0.03	0.27	0.1
Santa Maria	TX012800	10/7/2013	10/8/2013	0.33	0.03	1.14	0.1
Santa Maria	TX012807	10/8/2013	10/9/2013	0.08	0.03	0.5	0.1
Santa Maria	TX012815	10/13/2013	10/14/2013	ND	0.03	0.1	0.1
Santa Maria	TX012821	10/19/2013	10/20/2013	0.77	0.03	0.93	0.1
Santa Maria	TX012832	10/25/2013	10/26/2013	0.05	0.03	ND	0.1
Santa Maria	TX012849	10/31/2013	11/1/2013	0.10	0.03	ND	0.1
Santa Maria	TX012855	11/6/2013	11/7/2013	ND	0.03	ND	0.1
Santa Maria	TX012869	11/12/2013	11/13/2013	0.04	0.03	0.11	0.1
Santa Maria	TX012884	11/18/2013	11/19/2013	0.03	0.03	ND	0.1
Santa Maria	TX012879	11/20/2013	11/21/2013	0.04	0.03	ND	0.1
Santa Maria	TX012891	11/24/2013	11/25/2013	0.11	0.03	ND	0.1
Santa Maria	TX012906	11/30/2013	12/1/2013	0.05	0.03	ND	0.1
Santa Maria	TX012918	12/6/2013	12/7/2013	ND	0.03	ND	0.1
Santa Maria	TX012925	12/10/2013	12/11/2013	ND	0.03	ND	0.1
Santa Maria	TX012932	12/12/2013	12/13/2013	ND	0.03	ND	0.1
Santa Maria	TX012947	12/18/2013	12/19/2013	0.06	0.03	ND	0.1
Santa Maria	TX012952	12/24/2013	12/25/2013	0.04	0.03	ND	0.1
Santa Maria	TX012971	12/30/2013	12/31/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010343	8/10/2010	8/11/2010	0.29	0.03	ND	0.1
Camarillo/Oxnard	TX010368	8/16/2010	8/16/2010	0.52	0.03	0.52	0.1
Camarillo/Oxnard	TX010390	8/23/2010	8/24/2010	0.25	0.03	1.15	0.1
Camarillo/Oxnard	TX010414	8/31/2010	9/1/2010	0.05	0.03	1.9	0.1
Camarillo/Oxnard	TX010426	9/7/2010	9/8/2010	ND	0.03	0.32	0.1
Camarillo/Oxnard	TX010427	9/12/2010	9/13/2010	0.05	0.03	1.03	0.1
Camarillo/Oxnard	TX010459	9/20/2010	9/21/2010	0.04	0.03	0.61	0.1
Camarillo/Oxnard	TX010476	10/4/2010	10/5/2010	0.05	0.03	ND	0.1
Camarillo/Oxnard	TX010494	10/11/2010	10/12/2010	0.05	0.03	ND	0.1
Camarillo/Oxnard	TX010505	10/18/2010	10/19/2010	0.06	0.03	ND	0.1
Camarillo/Oxnard	TX010519	10/25/2010	10/26/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010544	11/9/2010	11/10/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010554	11/10/2010	11/11/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010561	11/15/2010	11/16/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010578	11/22/2010	11/23/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010585	11/29/2010	11/30/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010600	12/6/2010	12/7/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010617	12/13/2010	12/14/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010642	12/27/2010	12/28/2010	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010651	1/3/2011	1/4/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010664	1/10/2011	1/11/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010691	1/25/2011	1/26/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010699	1/31/2011	2/1/2011	ND	0.03	ND	0.1

Marylou Verder-Carlos
September 24, 2014
Page 21

Camarillo/Oxnard	TX010712	2/7/2011	2/8/2011	0.51	0.03	ND	0.1
Camarillo/Oxnard	TX010723	2/14/2011	2/15/2011	0.10	0.03	ND	0.1
Camarillo/Oxnard	TX010736	2/20/2011	2/21/2011	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX010764	3/7/2011	3/8/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010767	3/9/2011	3/10/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010773	3/14/2011	3/15/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010792	3/21/2011	3/22/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010813	3/29/2011	3/30/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010814	4/3/2011	4/4/2011	0.30	0.03	ND	0.1
Camarillo/Oxnard	TX010827	4/10/2011	4/11/2011	0.56	0.03	ND	0.1
Camarillo/Oxnard	TX010840	4/12/2011	4/13/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010843	4/17/2011	4/18/2011	0.10	0.03	ND	0.1
Camarillo/Oxnard	TX010844	4/19/2011	4/20/2011	0.03	0.03	ND	0.1
Camarillo/Oxnard	TX010861	4/26/2011	4/27/2011	0.30	0.03	ND	0.1
Camarillo/Oxnard	TX010868	5/2/2011	5/3/2011	0.14	0.03	ND	0.1
Camarillo/Oxnard	TX010883	5/3/2011	5/4/2011	0.16	0.03	ND	0.1
Camarillo/Oxnard	TX010881	5/8/2011	5/9/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010903	5/17/2011	5/18/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX010907	5/23/2011	5/24/2011	0.90	0.03	ND	0.1
Camarillo/Oxnard	TX010926	6/1/2011	6/2/2011	0.35	0.03	ND	0.1
Camarillo/Oxnard	TX010928	6/5/2011	6/6/2011	0.12	0.03	ND	0.1
Camarillo/Oxnard	TX010949	6/13/2011	6/14/2011	0.18	0.03	0.16	0.1
Camarillo/Oxnard	TX010966	6/21/2011	6/22/2011	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX010976	6/26/2011	6/27/2011	0.10	0.03	ND	0.1
Camarillo/Oxnard	TX011009	7/4/2011	7/5/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011010	7/14/2011	7/15/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011022	7/25/2011	7/26/2011	0.09	0.03	ND	0.1
Camarillo/Oxnard	TX011024	7/25/2011	7/26/2011	0.80	0.03	ND	0.1
Camarillo/Oxnard	TX011042	8/1/2011	8/2/2011	0.18	0.03	ND	0.1
Camarillo/Oxnard	TX011053	8/9/2011	8/10/2011	0.60	0.03	ND	0.1
Camarillo/Oxnard	TX011063	8/16/2011	8/17/2011	0.86	0.03	ND	0.1
Camarillo/Oxnard	TX011076	8/21/2011	8/22/2011	1.30	0.03	ND	0.1
Camarillo/Oxnard	TX011075	8/22/2011	8/23/2011	0.38	0.03	0.25	0.1
Camarillo/Oxnard	TX011089	8/28/2011	8/29/2011	0.88	0.03	ND	0.1
Camarillo/Oxnard	TX011087	8/29/2011	8/30/2011	1.40	0.03	0.14	0.1
Camarillo/Oxnard	TX011110	9/4/2011	9/5/2011	0.67	0.03	1.05	0.1
Camarillo/Oxnard	TX011132	9/7/2011	9/8/2011	0.41	0.03	0.87	0.1
Camarillo/Oxnard	TX011133	9/12/2011	9/13/2011	0.59	0.03	3.1	0.1
Camarillo/Oxnard	TX011140	9/18/2011	9/19/2011	0.17	0.03	0.28	0.1
Camarillo/Oxnard	TX011152	9/25/2011	9/26/2011	0.04	0.03	1.93	0.1
Camarillo/Oxnard	TX011165	10/3/2011	10/4/2011	0.04	0.03	0.21	0.1
Camarillo/Oxnard	TX011195	10/17/2011	10/18/2011	0.04	0.03	0.12	0.1
Camarillo/Oxnard	TX011209	10/24/2011	10/25/2011	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX011224	10/30/2011	10/31/2011	0.05	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 22

Camarillo/Oxnard	TX011222	11/2/2011	11/3/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011236	11/5/2011	11/6/2011	0.14	0.03	ND	0.1
Camarillo/Oxnard	TX011248	11/16/2011	11/17/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011256	11/17/2011	11/18/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011267	11/23/2011	11/24/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011280	11/29/2011	11/30/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011293	12/2/2011	12/3/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011308	12/7/2011	12/8/2012	0.09	0.03	ND	0.1
Camarillo/Oxnard	TX011310	12/11/2011	12/12/2011	0.03	0.03	ND	0.1
Camarillo/Oxnard	TX011312	12/13/2011	12/14/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011332	12/17/2011	12/18/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011366	12/23/2011	12/24/2011	0.03	0.03	ND	0.1
Camarillo/Oxnard	TX011364	12/29/2011	12/30/2011	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011386	1/7/2012	1/8/2012	0.07	0.03	0.44	0.1
Camarillo/Oxnard	TX011380	1/10/2012	1/11/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011389	1/12/2012	1/13/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011394	1/16/2012	1/17/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011409	1/22/2012	1/23/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011417	1/28/2012	1/29/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011437	2/3/2012	2/4/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011445	2/9/2012	2/10/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011465	2/21/2012	2/22/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011493	2/23/2012	2/24/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011489	2/27/2012	2/28/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011501	3/4/2012	3/5/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011518	3/10/2012	3/11/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011516	3/14/2012	3/15/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011551	3/16/2012	3/17/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011550	3/22/2012	3/23/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011562	3/28/2012	3/29/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011579	4/3/2012	4/4/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011590	4/9/2012	4/10/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011587	4/11/2012	4/12/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011614	4/15/2012	4/16/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011619	4/21/2012	4/22/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011637	4/27/2012	4/28/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011641	5/3/2012	5/4/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011658	5/9/2012	5/10/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011665	5/15/2012	5/16/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011671	5/17/2012	5/18/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011693	5/21/2012	5/22/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011694	5/27/2012	5/28/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011715	6/2/2012	6/3/2012	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX011721	6/8/2012	6/9/2012	0.07	0.03	ND	0.1

Marylou Verder-Carlos
September 24, 2014
Page 23

Camarillo/Oxnard	TX011741	6/14/2012	6/15/2012	0.05	0.03	ND	0.1
Camarillo/Oxnard	TX011760	6/20/2012	6/21/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011763	6/26/2012	6/27/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011757	6/28/2012	6/29/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011778	7/2/2012	7/3/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011792	7/8/2012	7/9/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011796	7/14/2012	7/15/2012	0.24	0.03	ND	0.1
Camarillo/Oxnard	TX011814	7/20/2012	7/21/2012	3.40	0.03	ND	0.1
Camarillo/Oxnard	TX011810	7/24/2012	7/25/2012	0.33	0.03	ND	0.1
Camarillo/Oxnard	TX011822	7/26/2012	7/27/2012	0.53	0.03	ND	0.1
Camarillo/Oxnard	TX011840	8/1/2012	8/2/2012	0.18	0.03	ND	0.1
Camarillo/Oxnard	TX011846	8/7/2012	8/8/2012	0.70	0.03	0.1	0.1
Camarillo/Oxnard	TX011864	8/13/2012	8/14/2012	0.05	0.03	ND	0.1
Camarillo/Oxnard	TX011869	8/15/2012	8/16/2012	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX011906	8/19/2012	8/20/2012	0.07	0.03	1.27	0.1
Camarillo/Oxnard	TX011898	8/25/2012	8/26/2012	0.1	0.03	ND	0.1
Camarillo/Oxnard	TX011903	8/31/2012	9/1/2012	ND	0.03	6.4	0.1
Camarillo/Oxnard	TX011925	9/6/2012	9/7/2012	0.09	0.03	1.42	0.1
Camarillo/Oxnard	TX011928	9/12/2012	9/13/2012	ND	0.03	0.33	0.1
Camarillo/Oxnard	TX011945	9/18/2012	9/19/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011939	9/20/2012	9/21/2012	0.03	0.03	0.41	0.1
Camarillo/Oxnard	TX011966	9/24/2012	9/25/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011976	9/30/2012	10/1/2012	0.14	0.03	ND	0.1
Camarillo/Oxnard	TX011984	10/6/2012	10/7/2012	0.03	0.03	ND	0.1
Camarillo/Oxnard	TX011993	10/12/2012	10/13/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX011990	10/16/2012	10/17/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012020	10/18/2012	10/19/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012031	10/30/2012	10/31/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012053	11/5/2012	11/6/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012067	11/11/2012	11/12/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012068	11/17/2012	11/18/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012074	11/20/2012	11/21/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012095	11/23/2012	11/24/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012105	11/29/2012	11/30/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012111	12/5/2012	12/6/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012132	12/11/2012	12/12/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012128	12/13/2012	12/14/2012	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX012143	12/17/2012	12/18/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012144	12/23/2012	12/24/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012165	12/29/2012	12/30/2012	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012175	1/4/2013	1/5/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012192	1/10/2013	1/11/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012198	1/16/2013	1/17/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012217	1/22/2013	1/23/2013	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 24

Camarillo/Oxnard	TX012214	1/24/2013	1/25/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012244	1/28/2013	1/29/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012268	2/3/2013	2/4/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012257	2/9/2013	2/10/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012262	2/12/2013	2/13/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012283	2/15/2013	2/16/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012295	2/21/2013	2/22/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012321	2/27/2013	2/28/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012323	3/5/2013	3/6/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012327	3/11/2013	3/12/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012348	3/17/2013	3/18/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012345	3/20/2013	3/21/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012364	3/23/2013	3/24/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012384	3/29/2013	3/30/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012386	4/4/2013	4/5/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012415	4/10/2013	4/11/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012416	4/16/2013	4/17/2013	ND	0.03	0.1	0.1
Camarillo/Oxnard	TX012430	4/22/2013	4/23/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012432	4/22/2013	4/23/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012453	4/28/2013	4/29/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012459	5/4/2013	5/5/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012464	5/10/2013	5/11/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012469	5/14/2013	5/15/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012491	5/16/2013	5/17/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012500	5/22/2013	5/23/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012506	5/28/2013	5/29/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012522	6/3/2013	6/4/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012542	6/9/2013	6/10/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012551	6/15/2013	6/16/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012557	6/21/2013	6/22/2013	0.05	0.03	0.24	0.1
Camarillo/Oxnard	TX012563	6/25/2013	6/26/2013	ND	0.03	0.22	0.1
Camarillo/Oxnard	TX012579	6/27/2013	6/28/2013	0.17	0.03	ND	0.1
Camarillo/Oxnard	TX012595	7/3/2013	7/4/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012626	7/9/2013	7/10/2013	0.04	0.03	0.57	0.1
Camarillo/Oxnard	TX012625	7/15/2013	7/16/2013	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX012635	7/21/2013	7/22/2013	0.04	0.03	ND	0.1
Camarillo/Oxnard	TX012628	7/24/2013	7/25/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012657	7/27/2013	7/28/2013	0.05	0.03	1.9	0.1
Camarillo/Oxnard	TX012658	8/2/2013	8/3/2013	0.06	0.03	3	0.1
Camarillo/Oxnard	TX012675	8/8/2013	8/9/2013	0.03	0.03	0.5	0.1
Camarillo/Oxnard	TX012695	8/14/2013	8/15/2013	ND	0.03	0.73	0.1
Camarillo/Oxnard	TX012705	8/26/2013	8/27/2013	0.04	0.03	0.54	0.1
Camarillo/Oxnard	TX012709	8/28/2013	8/29/2013	ND	0.03	0.52	0.1
Camarillo/Oxnard	TX012742	9/1/2013	9/2/2013	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 25

Camarillo/Oxnard	TX012734	9/7/2013	9/8/2013	ND	0.03	0.42	0.1
Camarillo/Oxnard	TX012739	9/11/2013	9/12/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012765	9/13/2013	9/14/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012789	9/25/2013	9/26/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012811	10/1/2013	10/2/2013	0.05	0.03	ND	0.1
Camarillo/Oxnard	TX012802	10/7/2013	10/8/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012806	10/8/2013	10/9/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012817	10/13/2013	10/14/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012839	10/19/2013	10/20/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012840	10/25/2013	10/26/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012853	10/31/2013	11/1/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012885	11/12/2013	11/13/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012886	11/13/2013	11/14/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012883	11/18/2013	11/19/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012880	11/20/2013	11/21/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012898	11/24/2013	11/25/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012908	11/30/2013	12/1/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012915	12/6/2013	12/7/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012921	12/10/2013	12/11/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012943	12/18/2013	12/19/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012963	12/24/2013	12/25/2013	ND	0.03	ND	0.1
Camarillo/Oxnard	TX012964	12/30/2013	12/31/2013	ND	0.03	ND	0.1
Watsonville	TX011234	11/5/2011	11/6/2011	0.08	0.03	0.21	0.1
Watsonville	TX011283	12/5/2011	12/6/2011	ND	0.03	ND	0.1
Watsonville	TX011307	12/11/2011	12/12/2011	ND	0.03	ND	0.1
Watsonville	TX011320	12/17/2011	12/18/2011	ND	0.03	ND	0.1
Watsonville	TX011338	12/23/2011	12/24/2011	ND	0.03	ND	0.1
Watsonville	TX011351	12/29/2011	12/30/2011	ND	0.03	ND	0.1
Watsonville	TX011410	1/4/2012	1/5/2012	ND	0.03	ND	0.1
Watsonville	TX011378	1/10/2012	1/11/2012	ND	0.03	ND	0.1
Watsonville	TX011381	1/12/2012	1/13/2012	ND	0.03	ND	0.1
Watsonville	TX011392	1/16/2012	1/17/2012	ND	0.03	ND	0.1
Watsonville	TX011407	1/22/2012	1/23/2012	ND	0.03	ND	0.1
Watsonville	TX011411	1/28/2012	1/29/2012	ND	0.03	ND	0.1
Watsonville	TX011439	2/9/2012	2/10/2012	ND	0.03	ND	0.1
Watsonville	TX011468	2/21/2012	2/22/2012	ND	0.03	ND	0.1
Watsonville	TX011466	2/23/2012	2/24/2012	ND	0.03	ND	0.1
Watsonville	TX011480	2/27/2012	2/28/2012	ND	0.03	ND	0.1
Watsonville	TX011514	3/14/2012	3/15/2012	0.04	0.03	ND	0.1
Watsonville	TX011529	3/16/2012	3/17/2012	ND	0.03	ND	0.1
Watsonville	TX011531	3/20/2012	3/21/2012	ND	0.03	ND	0.1
Watsonville	TX011547	3/22/2012	3/23/2012	ND	0.03	ND	0.1
Watsonville	TX011548	3/23/2012	3/24/2012	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 26

Watsonville	TX011561	3/28/2012	3/29/2012	ND	0.03	ND	0.1
Watsonville	TX011581	4/3/2012	4/4/2012	ND	0.03	ND	0.1
Watsonville	TX011593	4/9/2012	4/10/2012	ND	0.03	ND	0.1
Watsonville	TX011591	4/11/2012	4/12/2012	0.18	0.03	ND	0.1
Watsonville	TX011610	4/15/2012	4/16/2012	ND	0.03	ND	0.1
Watsonville	TX011615	4/21/2012	4/22/2012	ND	0.03	ND	0.1
Watsonville	TX011622	4/27/2012	4/28/2012	ND	0.03	ND	0.1
Watsonville	TX011638	5/3/2012	5/4/2012	ND	0.03	ND	0.1
Watsonville	TX011642	5/9/2012	5/10/2012	ND	0.03	ND	0.1
Watsonville	TX011664	5/15/2012	5/16/2012	ND	0.03	ND	0.1
Watsonville	TX011673	5/17/2012	5/18/2012	ND	0.03	0.13	0.1
Watsonville	TX011686	5/21/2012	5/22/2012	ND	0.03	ND	0.1
Watsonville	TX011695	5/27/2012	5/28/2012	0.06	0.03	ND	0.1
Watsonville	TX011707	6/2/2012	6/3/2012	ND	0.03	ND	0.1
Watsonville	TX011718	6/8/2012	6/9/2012	0.05	0.03	ND	0.1
Watsonville	TX011731	6/14/2012	6/15/2012	0.053	0.03	ND	0.1
Watsonville	TX011742	6/20/2012	6/21/2012	ND	0.03	ND	0.1
Watsonville	TX011755	6/26/2012	6/27/2012	0.06	0.03	ND	0.1
Watsonville	TX011764	6/28/2012	6/29/2012	ND	0.03	ND	0.1
Watsonville	TX011771	7/2/2012	7/3/2012	ND	0.03	ND	0.1
Watsonville	TX011790	7/8/2012	7/9/2012	0.25	0.03	ND	0.1
Watsonville	TX011794	7/14/2012	7/15/2012	0.12	0.03	ND	0.1
Watsonville	TX011806	7/20/2012	7/21/2012	ND	0.03	ND	0.1
Watsonville	TX011812	7/24/2012	7/25/2012	ND	0.03	ND	0.1
Watsonville	TX011824	7/26/2012	7/27/2012	ND	0.03	ND	0.1
Watsonville	TX011839	8/1/2012	8/2/2012	0.08	0.03	ND	0.1
Watsonville	TX011845	8/7/2012	8/8/2012	0.10	0.03	ND	0.1
Watsonville	TX011867	8/13/2012	8/14/2012	0.04	0.03	ND	0.1
Watsonville	TX011870	8/15/2012	8/16/2012	0.04	0.03	ND	0.1
Watsonville	TX011881	8/19/2012	8/20/2012	0.23	0.03	ND	0.1
Watsonville	TX011897	8/25/2012	8/26/2012	0.07	0.03	ND	0.1
Watsonville	TX011901	8/31/2012	9/1/2012	0.59	0.03	ND	0.1
Watsonville	TX011919	9/6/2012	9/7/2012	0.56	0.03	ND	0.1
Watsonville	TX011929	9/12/2012	9/13/2012	0.22	0.03	ND	0.1
Watsonville	TX011944	9/18/2012	9/19/2012	0.16	0.03	ND	0.1
Watsonville	TX011940	9/20/2012	9/21/2012	0.44	0.03	0.59	0.1
Watsonville	TX011971	9/30/2012	10/1/2012	10	0.03	0.9	0.1
Watsonville	TX011980	10/6/2012	10/7/2012	0.78	0.03	0.92	0.1
Watsonville	TX011992	10/12/2012	10/13/2012	0.55	0.03	2.8	0.1
Watsonville	TX011996	10/16/2012	10/17/2012	1.50	0.03	1.49	0.1
Watsonville	TX012006	10/18/2012	10/19/2012	0.25	0.03	0.33	0.1
Watsonville	TX012032	10/24/2012	10/25/2012	0.21	0.03	0.54	0.1
Watsonville	TX012034	10/30/2012	10/31/2012	0.18	0.03	0.43	0.1
Watsonville	TX012045	11/5/2012	11/6/2012	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 27

Watsonville	TX012056	11/11/2012	11/12/2012	ND	0.03	ND	0.1
Watsonville	TX012076	11/17/2012	11/18/2012	ND	0.03	ND	0.1
Watsonville	TX012075	11/20/2012	11/21/2012	ND	0.03	ND	0.1
Watsonville	TX012108	11/30/2012	12/1/2012	ND	0.03	ND	0.1
Watsonville	TX012109	12/5/2012	12/6/2012	ND	0.03	ND	0.1
Watsonville	TX012131	12/11/2012	12/12/2012	ND	0.03	ND	0.1
Watsonville	TX012129	12/13/2012	12/14/2012	ND	0.03	ND	0.1
Watsonville	TX012139	12/17/2012	12/18/2012	ND	0.03	ND	0.1
Watsonville	TX012190	12/23/2012	12/24/2012	ND	0.03	ND	0.1
Watsonville	TX012191	12/29/2012	12/30/2012	ND	0.03	ND	0.1
Watsonville	TX012186	1/4/2013	1/5/2013	ND	0.03	ND	0.1
Watsonville	TX012187	1/10/2013	1/11/2013	ND	0.03	ND	0.1
Watsonville	TX012197	1/16/2013	1/17/2013	ND	0.03	ND	0.1
Watsonville	TX012216	1/22/2013	1/23/2013	0.04	0.03	ND	0.1
Watsonville	TX012215	1/24/2013	1/25/2013	ND	0.03	ND	0.1
Watsonville	TX012231	1/28/2013	1/29/2013	ND	0.03	ND	0.1
Watsonville	TX012247	2/3/2013	2/4/2013	ND	0.03	ND	0.1
Watsonville	TX012258	2/9/2013	2/10/2013	ND	0.03	ND	0.1
Watsonville	TX012264	2/12/2013	2/13/2013	ND	0.03	ND	0.1
Watsonville	TX012279	2/15/2013	2/16/2013	ND	0.03	ND	0.1
Watsonville	TX012292	2/21/2013	2/22/2013	ND	0.03	ND	0.1
Watsonville	TX012350	3/11/2013	3/12/2013	ND	0.03	ND	0.1
Watsonville	TX012351	3/17/2013	3/18/2013	ND	0.03	ND	0.1
Watsonville	TX012346	3/20/2013	3/21/2013	ND	0.03	ND	0.1
Watsonville	TX012360	3/23/2013	3/24/2013	ND	0.03	ND	0.1
Watsonville	TX012361	3/24/2013	3/25/2013	ND	0.03	ND	0.1
Watsonville	TX012375	3/29/2013	3/30/2013	ND	0.03	ND	0.1
Watsonville	TX012387	4/4/2013	4/5/2013	ND	0.03	ND	0.1
Watsonville	TX012403	4/10/2013	4/11/2013	ND	0.03	ND	0.1
Watsonville	TX012407	4/16/2013	4/17/2013	ND	0.03	ND	0.1
Watsonville	TX012429	4/22/2013	4/23/2013	ND	0.03	ND	0.1
Watsonville	TX012433	4/24/2013	4/25/2013	ND	0.03	ND	0.1
Watsonville	TX012441	4/28/2013	4/29/2013	ND	0.03	ND	0.1
Watsonville	TX012456	5/4/2013	5/5/2013	0.03	0.03	ND	0.1
Watsonville	TX012465	5/10/2013	5/11/2013	ND	0.03	ND	0.1
Watsonville	TX012467	5/14/2013	5/15/2013	ND	0.03	ND	0.1
Watsonville	TX012484	5/16/2013	5/17/2013	ND	0.03	ND	0.1
Watsonville	TX012493	5/22/2013	5/23/2013	ND	0.03	ND	0.1
Watsonville	TX012516	5/30/2013	5/31/2013	ND	0.03	ND	0.1
Watsonville	TX012515	6/3/2013	6/4/2013	ND	0.03	ND	0.1
Watsonville	TX012544	6/9/2013	6/10/2013	ND	0.03	ND	0.1
Watsonville	TX012545	6/15/2013	6/16/2013	ND	0.03	ND	0.1
Watsonville	TX012560	6/21/2013	6/22/2013	ND	0.03	ND	0.1
Watsonville	TX012561	6/25/2013	6/26/2013	ND	0.03	ND	0.1

Marylou Verder-Carlos
 September 24, 2014
 Page 28

Watsonville	TX012577	6/27/2013	6/28/2013	0.03	0.03	0.31	0.1
Watsonville	TX012589	7/3/2013	7/4/2013	ND	0.03	ND	0.1
Watsonville	TX012601	7/11/2013	7/12/2013	ND	0.03	ND	0.1
Watsonville	TX012614	7/15/2013	7/16/2013	ND	0.03	ND	0.1
Watsonville	TX012630	7/21/2013	7/22/2013	ND	0.03	ND	0.1
Watsonville	TX012629	7/24/2013	7/25/2013	ND	0.03	ND	0.1
Watsonville	TX012686	7/27/2013	7/28/2013	ND	0.03	ND	0.1
Watsonville	TX012659	8/2/2013	8/3/2013	ND	0.03	ND	0.1
Watsonville	TX012669	8/8/2013	8/9/2013	0.08	0.03	0.21	0.1
Watsonville	TX012680	8/14/2013	8/15/2013	0.81	0.03	ND	0.1
Watsonville	TX012688	8/20/2013	8/21/2013	0.04	0.03	ND	0.1
Watsonville	TX012704	8/26/2013	8/27/2013	0.50	0.03	ND	0.1
Watsonville	TX012707	8/28/2013	8/29/2013	0.49	0.03	0.13	0.1
Watsonville	TX012716	9/1/2013	9/2/2013	0.83	0.03	ND	0.1
Watsonville	TX012733	9/7/2013	9/8/2013	0.70	0.03	1.51	0.1
Watsonville	TX012737	9/11/2013	9/12/2013	0.18	0.03	0.38	0.1
Watsonville	TX012760	9/13/2013	9/14/2013	0.52	0.03	ND	0.1
Watsonville	TX012764	9/19/2013	9/20/2013	0.34	0.03	0.1	0.1
Watsonville	TX012778	9/25/2013	9/26/2013	0.22	0.03	0.43	0.1
Watsonville	TX012788	10/1/2013	10/2/2013	0.34	0.03	0.27	0.1
Watsonville	TX012801	10/7/2013	10/8/2013	0.68	0.03	0.39	0.1
Watsonville	TX012808	10/8/2013	10/9/2013	0.90	0.03	ND	0.1
Watsonville	TX012814	10/13/2013	10/14/2013	1.80	0.03	0.36	0.1
Watsonville	TX012825	10/19/2013	10/20/2013	0.63	0.03	1.06	0.1
Watsonville	TX012836	10/25/2013	10/26/2013	0.09	0.03	0.55	0.1
Watsonville	TX012838	10/31/2013	11/1/2013	0.51	0.03	0.36	0.1
Watsonville	TX012857	11/6/2013	11/7/2013	ND	0.03	0.25	0.1
Watsonville	TX012858	11/12/2013	11/13/2013	ND	0.03	0.24	0.1
Watsonville	TX012882	11/18/2013	11/19/2013	ND	0.03	ND	0.1
Watsonville	TX012881	11/20/2013	11/21/2013	ND	0.03	ND	0.1
Watsonville	TX012894	11/24/2013	11/25/2013	ND	0.03	ND	0.1
Watsonville	TX012900	11/30/2013	12/1/2013	ND	0.03	ND	0.1
Watsonville	TX012916	12/6/2013	12/7/2013	ND	0.03	ND	0.1
Watsonville	TX012923	12/10/2013	12/11/2013	ND	0.03	ND	0.1
Watsonville	TX012945	12/18/2013	12/19/2013	ND	0.03	ND	0.1
Watsonville	TX012954	12/24/2013	12/25/2013	0.04	0.03	ND	0.1
Watsonville	TX012955	12/30/2013	12/31/2013	ND	0.03	ND	0.1

Marylou Verder-Carlos
September 24, 2014
Page 29