

Appendix AQ-4

**Potential Odors from the
Sacramento Rendering Company
at the Proposed Jackson
Township Development**



TECHNICAL MEMORANDUM

POTENTIAL ODORS FROM THE SACRAMENTO RENDERING COMPANY AT THE PROPOSED JACKSON TOWNSHIP DEVELOPMENT

June 17, 2015

1 EXECUTIVE SUMMARY

The Sacramento Rendering Company (SRC) is located at 11350 Kiefer Boulevard, Sacramento, California. SRC has operated facilities in Sacramento County since 1913 and has been operating at its current location since the 1950s.¹ SRC receives restaurant grease and inedible animal byproduct materials and renders them into products used in the manufacturing of many everyday items such as soaps, cosmetics, candles, and animal feed.²

SRC is located approximately 1.5 miles east of the proposed Jackson Township Specific Plan (Jackson Township) and approximately 0.75 miles west of existing homes located on the east side of Sunrise Boulevard (See Figure 1, Attachment A). There have been reports to the Sacramento Metropolitan Air Quality Management District (SMAQMD) of detectable odors in the vicinity associated with SRC³. This study evaluates the potential for detectable and recognizable odors from SRC occurring at the proposed Jackson Township. The results of the study are summarized below, while the details are presented in the following sections of this Technical Memorandum.

SRC possesses 10 permits to operate from SMAQMD for potentially emitting devices and emission for control systems at the facility. These emission control systems remove from 69 to 99.7 percent of the potential emissions prior to their being exhausted through elevated stacks to the atmosphere. The emission control equipment and regulatory requirements of SMAQMD significantly reduce the possibility of odors being detected even at existing housing developments located about 0.75 miles east and north of SRC. Prevailing winds in the vicinity of SRC are from the south and west toward the existing homes, with the wind blowing away from the Jackson Township more than 95 percent of the time. Furthermore, experience in other

¹ *Regulatory Authority of the Sacramento Metropolitan Air Quality Management District Over the Sacramento Rendering Company*, SMAQMD, available at <http://www.airquality.org/compliance/SRCFacts.pdf>. Last accessed May 2015.

² *ibid.*

³ *ibid.*

regions with rendering plants indicates that the vast majority of odor complaints occur less than 0.5 miles from the plants.

A literature review was conducted to identify the nature and intensity of odorous compounds that could be emitted from SRC. Emissions of such compounds are often reported in terms of odor units (OU). An OU is the amount of odor-free air that must be introduced into a given sample to make the odor undetectable. Emissions are also reported in traditional terms of mass per unit time (e.g., tons per year). After obtaining emissions data, the emissions were modeled with an atmospheric dispersion model to evaluate the potential concentrations of the emissions at receptors located at the existing housing and the future Jackson Township. The dispersion modeling indicated that in almost all cases, there is no potential for odor at the nearest point (maximum impact point) of the Jackson Township.

Although detectable odors could occur at the Jackson Township, the likelihood of such an occurrence is very small. This is due to a number of facts, including:

- Extensive emission controls at SRC (some of which were installed in 2010, and subsequently reduced the number of odor complaints associated with SRC by nearly a factor of 10).
- Prevailing wind direction away from the Jackson Township. The wind direction frequency indicates that it is at least 10 times more likely for odors to be detected at the existing housing than at the Jackson Township.
- Distance of the Jackson Township from SRC.

The second section of this Technical Memorandum describes the SRC facility and emission controls, and the third discusses regulations that affect operations and reduce potential odor emissions from the facility. Section 4 summarizes odor complaints that have been received by SMAQMD and complaints at other similar facilities. Section 5 discusses odor perception and thresholds, while Section 6 discusses the potential for detectable and recognizable odors from SRC at the proposed Jackson Township.

2 DESCRIPTION OF SRC

SRC is a privately held rendering facility that accepts and processes (renders) inedible animal byproducts from supermarkets, butcher shops, restaurants, feedlots, ranches, and dairies. SRC takes these materials and recycles them into products that are used in the manufacturing of

soap, paints, cosmetics, lubricants, candles, animal feed, and biofuel.⁴ The facility possesses 10 permits to operate from the SMAQMD. The permits are for devices at the facility with the potential for emissions and devices that control potential emissions from the facility. Detailed information regarding all of the processes at the facility is not available, but the permits to operate indicate that at least the potentially emitting systems shown in Table 2-1 are present at the facility.

**Table 2-1
SMAQMD Permits to Operate for SRC⁵**

Permit	Issue Date	Device
21357	April 26, 2010	Tower Scrubber venting room air from process building. Outlet to the atmosphere.
21356	April 26, 2010	APC scrubber.
18424	November 8, 2005	Regenerative Thermal Oxidizer (RTO), inlet from the venturi scrubber and outlet to the Spray Tower Scrubber
18423	November 8, 2005	Spray Tower Scrubber venting room air from the loading area and the RTO. Outlet to the atmosphere.
17222	September 23, 2004	Venturi Scrubber. Outlet to the RTO. Inlet is from the two APC condensers.
17221	September 23, 2004	Cross Flow Scrubber. Inlet from room air in the cooking room. Outlet to the atmosphere.
17219	Re-issued September 23, 2004	Two APC Condensers. Inlet is from the process cookers. Outlet to the APC scrubber.
2822	Re-issued December 15, 2004, Issued October 20, 1979	Rendering Plant.
19480	Not Available	Boiler.
19479	Not Available	Boiler.

As Table 1 shows, the facility has a number of air pollution control devices to reduce the potential for emissions and potential odors. These devices can remove well over 90 percent of potential emissions (see Section 6.3).

⁴ *Frequently Asked Questions about Sacramento Rendering Company.*
<http://www.saccounty.net/Pages/SacramentoRenderingCompany.aspx>. Last accessed November 2014.

⁵ *List of SMAQMD Permits to Operate.* E-mail from Todd Smith to Jim Wiley dated March 11, 2015.

Both SRC and the SMAQMD have worked to reduce the potential for emissions and odor complaints from the facility; and the most recent emission control systems installed, the Tower Scrubber and APC scrubber installed in 2010, were as a result of a voluntary commitment to install additional control equipment because of new development in the Sunrise/Douglas area⁶.

3 REGULATIONS AFFECTING POTENTIAL EMISSIONS AT SRC

3.1 SMAQMD REGULATIONS

The SMAQMD regulates facilities with the potential to emit any air contaminant and publishes regulations requiring permits to construct and operate any source of emissions and for any type of emission control equipment. SMAQMD also publishes prohibitory rules that apply to specific operations or contaminants. Two of the SMAQMD prohibitory rules that specifically apply to rendering plants such as SRC are Rule 410 – Reduction of Animal Matter and Rule 406 – Specific Contaminants⁷. Rule 410 specifies minimum standards for emission controls on animal rendering plants while Rule 406 specifies maximum emissions of sulfur compounds from any type of facility, including rendering plants. Some sulfur compounds can be odorous (e.g., mercaptans).

In addition to the device-specific prohibitory rules, SMAQMD has a general nuisance rule, Rule 402. Under most scenarios, Rule 402 would apply when a facility operating in compliance with permit conditions is still causing a public odor nuisance. However, California Civil Code Section 3482.6, “The Right to Farm Act”, specifically (i) includes rendering plants in the definition of agricultural activity, and (ii) exempts agricultural processing facilities and rendering plants from nuisance rules if the nuisance is due to changed conditions that occur after an agricultural activity has been in continuous operation for more than three years (so long as it was not a nuisance at the time it began operation). This is the case for SRC, and thus the general nuisance rule does not apply to SRC⁸.

3.2 OTHER CALIFORNIA REGULATIONS

Potential odors from rendering plants and similar facilities are the subject of regulations in other portions of California as well. For example, the Bay Area Air Quality Management District (BAAQMD) has published Regulation 7, Odorous Substances⁹. This regulation establishes an

⁶ *Regulatory Authority*, op.cit.

⁷ *SMAQMD Regulations*, available at <http://www.airquality.org/rules/index.shtml>. Last accessed May 2015.

⁸ *Regulatory Authority*, op.cit.

⁹ *BAAQMD Regulations*, available at <http://www.baaqmd.gov/Divisions/Planning-and-Research/Rules-and-Regulations.aspx>. Last accessed May 2015.

ambient odor standard of 4 odor units (see Section 5.0 for discussion of odor units) and establishes maximum emission limits for some odorous compounds, such as mercaptans. However, Regulation 7 does not apply until there are at least 10 odor complaints within 90 days and exempts agricultural operations.

The South Coast Air Quality Management District (SCAQMD) recently proposed a regulation specifically addressing odors from rendering plants. This regulation, Proposed Rule 415, was initially proposed on November 18, 2014 and addresses potential odors through requirements for emission controls rather than an ambient standard¹⁰.

4 ODOR COMPLAINTS

4.1 DISTANCE FROM FACILITIES

One indication of the effectiveness of emission control systems is the frequency of odor complaints associated with a rendering plant and the distance from the plant that odors occur. For example, the SCAQMD reported that nearly all of the odor complaints associated with four rendering plants in Vernon, California, occurred within 1.4 miles of the facilities¹¹. Another study of odor complaints found that 20 of 21 odor complaints all occurred within 700 meters (0.4 miles) of the emitting facility¹².

4.2 ODOR COMPLAINTS ASSOCIATED WITH SRC

The SMAQMD provided a report of odor complaints in the vicinity of SRC for the period September 10, 2008 through September 11, 2013¹³. A summary of the number of complaints is shown in Table 4-1.

¹⁰ SCAQMD Proposed Rule 415, available at <http://www.aqmd.gov/home/regulations/rules/proposed-rules#415>. Last accessed May 2015.

¹¹ SCAQMD Proposed Rule 415 Preliminary Draft Staff Report, Page 1-16, February 2015. Available at <http://www.aqmd.gov/home/regulations/rules/proposed-rules#415>. Last accessed May 2015.

¹² Review of Odour Monitoring and Control Techniques at Rendering Plants, SNIFFER Knowledge Brokers for a Resilient Scotland, ER32 Final Report, March 2013, pg. 15. Available at <http://www.sniffer.org.uk/knowledge-hubs/environmental-regulation/tools-and-guidance/odour-monitoring-and-control-rendering-plants/>. Last accessed May 2015.

¹³ SMAQMD Complaint System Report. Provided via e-mail from Todd Smith to Jim Wiley dated February 25, 2015.

**Table 4-1
SMAQMD Reported Odor Complaints Associated with SRC**

Calendar Year	Number of Complaints	Comments
2008	191	There were 27 complaints from September 10 through December 31, 2008. This value was extrapolated to an annual value for 2008 by calculating the ratio of the number of complaints from September 12 - December 31, 2009 to the number of complaints for January 1 - September 11, 2009. This ratio is 7.07 and was multiplied times the 27 complaints recorded from September 10, 2008 – December 31, 2008 to arrive at an estimated value of 191 complaints for all of 2008.
2009	106	Tower Scrubber and APC scrubber installed.
2010	25	
2011	29	
2012	15	
2013	24	There were 20 complaints from January 1, 2013 through September 11, 2013. This value was extrapolated to an annual value for 2013 by calculating the average ratio of the number of complaints from January 1 through September 11 of each of the years 2009, 2010, 2011, and 2012 to the number of complaints for September 12 through December 31 of each year. This ratio is 1.22 and was multiplied times the 20 complaints recorded from January 1 – September 11, 2013 to arrive at an estimated value of 24 complaints for all of 2013.

Table 4-1 shows the dramatic decrease in odor complaints as the result of the new emission control equipment installed at the facility in 2010. Note that the SMAQMD Complaint System did not record the distance from the facility that the odor complaints occurred. If the complaints were from the residences as opposed to persons driving by the facility, the complaints would most likely be from the residences located nearest the facility, about 0.75 miles away.

5 ODOR THRESHOLDS

Different individuals perceive odors differently. There is a wide range of response to an odor stimulant, and the variability in response is a function of the individual's sensitivity to specific compounds. A person can be hypersensitive to one chemical and virtually non-responsive to another. In addition, a person often detects the presence of an odor before he or she

recognizes an odor quality. Detection and recognition thresholds have been published by several researchers and the American Industrial Hygiene Association (AIHA).¹⁴ These thresholds are in terms of a concentration that can be detected/recognized by approximately 50 percent of the population. There are various studies that attempt to determine odor thresholds, and the range of results is often quite extensive. Table 5-1 shows odor detection and recognition thresholds used in this Technical Memorandum. The information in Table 5-1 came from AIHA¹⁵, SCAQMD¹⁶, and the Environmental Engineer's Handbook¹⁷ publications.

Table 5-1
Odor Detection and Recognition Thresholds of Typical Chemicals
Associated with Rendering Plants

Compound	Detection Threshold	Reference (Note 1)	Recognition Threshold	Reference (Note 1)
Butyric Acid	0.5 ppbv	Handbook	1.0 ppbv	Handbook, SCAQMD
Ethyl Mercaptan	0.35 ppbv	AIHA	0.40 – 1.0 ppbv	AIHA, SCAQMD
Methyl Mercaptan	0.54 ppbv	AIHA	1.0 – 2.2 ppbv	AIHA, SCAQMD
Hydrogen Sulfide	1.0 ppbv	AIHA (Note 2)	4.7 ppbv	SCAQMD
Indole	0.1 ppbv	Handbook	1.0 ppbv	SCAQMD

Note 1: See text for explanation of references.

Note 2: AIHA reported the geometric mean detection threshold from the literature for hydrogen sulfide to be 9.4 ppbv, which is greater than the recognition threshold geometric mean. Accordingly, the lowest detection value reported by AIHA was used.

Detection and recognition thresholds can have quite different responses in exposed individuals. For example, when a person is exposed to a very low concentration of hydrogen sulfide, on the order of 1.0 ppbv, the odor is characterized as musty or damp¹⁸. But if one is exposed to on the order of 30 ppb of hydrogen sulfide, the odor is more like the traditional rotten egg odor associated with hydrogen sulfide¹⁹.

¹⁴, *Odor Thresholds for Chemicals with Established Occupational Health Standards*, American Industrial Hygiene Association, 1995.

¹⁵ *ibid.*

¹⁶ SCAQMD, *op cit.*

¹⁷ *Environmental Engineer's Handbook*, Second Edition, edited by David H.F. Liu and Bela G. Liptik, CRC Press, August 29, 1997.

¹⁸ *Personal experience*. Russell E. Erbes, CCM. Field observations of hydrogen sulfide concentrations, 1980.

¹⁹ *ibid.*

When there is a mix of chemicals, the odor detection and recognition thresholds are not necessarily the same as for an individual chemical (e.g., a chemical with a very strong or unpleasant odor can mask a chemical that has a more pleasing odor). Accordingly, when there is a mix of chemicals the term “odor unit” is used to indicate the odor-causing potential of the chemical mix. An odor unit is the amount of dilution that must occur such that the odor of a given volume of a gas is no longer detectable for 50 percent of the population. For example, if four parts of odor-free air must be mixed with one part of a given gas, that gas has an odor unit of 4.0. As indicated previously, the BAAQMD has established a 4.0 odor unit ambient standard. Other agencies or groups have suggested an ambient odor standard of from 1 to 50 odor units²⁰.

6 POTENTIAL FOR ODORS FROM SRC AT JACKSON TOWNSHIP

6.1 ATMOSPHERIC DISPERSION MODEL

In order to assess the potential for odors from SRC at the Jackson Township, an atmospheric dispersion model was used. The dispersion model, AERMOD (Version 14134, as provided by BEE-Line Software, Version 10.16), was run with Sacramento Mather Airport meteorological data for the period 2009 to 2013, the most current processed data available. The Mather Airport is only about 3 miles north-northwest of the proposed Jackson Township and represents the meteorological conditions at SRC and vicinity extremely well. The AERMOD dispersion model is approved for use by the US Environmental Protection Agency, California Air Resources Board, and SMAQMD. The model was run with regulatory defaults in urban mode.

Attachment B shows a wind rose for the Mather Airport meteorological data. The spokes on the wind rose indicate the direction and frequency that the wind blows from. For example, approximately 9 percent of the time, the wind is from due south. The colors on the spokes represent the frequency of the wind speed category. For example, the wind speed for winds blowing from due south is less than 3.6 meters per second (8 miles per hour) about 5 percent of the time (the yellow portion of the south spoke in Attachment B). The wind rose shows that the prevailing winds in the vicinity of SRC are from the southern sector, and almost no wind blows from SRC towards the Jackson Township (i.e., easterly to westerly winds occur less than 5 percent of the time).

²⁰ Mahin, T.D., “Comparison of Different Approaches Used to Regulate Odors Around the World”, Mahin, T.D., Water Science and Technology, Vol 44 No 9 pp. 87-102. Mr. Mahin was employed by the Massachusetts Department of Environmental Protection. His publication was reported in *Odor Measurement and Review*, a compilation commissioned by the Office of Odor, Noise and Vibration, Environmental Management Bureau, Ministry of the Environment, Government of Japan. Available at <http://www.env.go.jp/en/air/odor/measure/>. Last accessed May 2015.

In order to use an atmospheric dispersion model, an emission rate has to be entered into the model (in terms of grams per second [g/sec] or other emission units per unit of time). If the emitting facility is modeled as a single stack, a normalized (unit) emission rate can be used to model ambient concentrations in terms of the normalized emission rate. For this study, SRC was modeled as a single effective stack. It is recognized that there are several stacks and emitting points at SRC, but data are not available regarding the individual stack characteristics, and as long as one is assessing ambient concentrations at relatively long distances (such as is the case for this study, 0.75 to 1.5 miles or more), a single effective stack representation is a reasonable approximation. The single stack parameters assumed for the model are shown in Table 6-1.

**Table 6-1
Modeled Stack Parameters for SRC**

Parameter	Value	Comments
Stack Height	35 feet, 10.67 meters	Reported by SRC in the permit application for the Tower Scrubber.
Stack Diameter	6 feet, 1.83 meters	Determined from aerial photos of SRC.
Exhaust Temperature	120 °F, 322.04 °K	Assumed conservatively low value for an exhaust temperature slightly greater than ambient because many of the systems vent both process and room air.
Exit Velocity	17.42 m/sec	SRC reported in the permit application for the Tower Scrubber that the exhaust flow is 92,000 scfm, which equals 97,068 acfm which equates to an exit velocity of 17.42 m/sec for a 1.83 meter diameter stack.
Normalized Emission Rate	1 gram per second	Unit emission rate.
Concentration of Normalized Emission Rate in Stack	23,000 ug/m ³	1 g/sec divided by 43.4 m ³ /sec = 0.023 g/m ³ = 23,000 ug/m ³ .
Building Dimensions	20 feet, 6.10 meters	Assumed building dimensions based on an aerial photo. Although downwash was included in the model, it will not be important due to the distant (at least 1.2 km) and thus actual building dimensions are not critical.

The dispersion model calculates ambient concentrations at defined geographic locations called receptors. For this study receptors were placed on the eastern side of the Jackson Township where housing or other permanent structures are proposed to be built and at locations of existing housing developments in the area as shown in Figure 1, Attachment A. Since odor

detection is a short term phenomenon, the dispersion model was run for 1-hour concentrations. The AERMOD model output is provided in Attachment C. The maximum 1-hour ambient concentrations per normalized emission rate are shown in Table 6-2. Table 6-2 also shows the atmospheric dispersion factor, which is the ratio of the modeled in-stack concentration to the ambient concentration. Thus, if one knows the in-stack concentration of a given compound, the in-stack concentration can be multiplied by the atmospheric dilution factor to determine the ambient concentration of that compound.

**Table 6-2
Maximum 1-hour Modeled Concentrations**

Receptor	Receptor Number (see Figure 1)	Receptor Location	Date and Time	Normalized Concentration	Atmospheric Dilution Factor
Point of Maximum Impact at Existing Housing (PMI)	10	653808 m Easting, 4265626 m Northing	May 24, 2012; 2100	5.07 ug/m ³	0.00022
Point of Maximum Impact at Proposed Jackson Township (Jackson maximum impact point)	29	650708 m Easting, 4264227 m Northing	May 8, 2009; 2000	3.70 ug/m ³	0.00016

The overall PMI is near the housing east of SRC (east of Sunrise Boulevard) and the maximum Jackson impact point is the receptor to the southwest of SRC. This impact point is a proposed Jackson Township Specific Plan agricultural area but there is the possibility for housing development in that area and thus it has been included in the evaluation.

6.2 POTENTIAL EMISSIONS FROM SRC

Traditionally, emitting sources report only emissions of criteria pollutants. The criteria pollutants are sulfur oxides, nitrogen oxides, carbon monoxide, ozone, particulate matter, and lead. The criteria pollutants are not generally associated with adverse odors (unless present in extremely high concentrations). Ozone is not generally emitted, but emissions of reactive organic gases (ROG) can photochemically react in the atmosphere to create excess ozone. At times, facilities report the emissions of total organic gases (TOG) that include ROG plus other non-reactive

organic compounds, such as methane. Typically, the term volatile organic compounds (VOC) is used interchangeably with ROG. Facilities in California are also required to report emissions of toxic air contaminants and other potentially toxic compounds, but these compounds are not generally associated with odors except in extremely high concentrations. Accordingly, facilities do not routinely report emissions of odor-causing compounds and emission rate data for specific odorous compounds from SRC are not available.

On the other hand, there has been research into emissions of odor causing chemicals at rendering plants. This research reports emissions in terms of a mass emission rate of a specific chemical (e.g., g/sec emissions of mercaptans) or in terms of an odor unit emission rate (e.g., odor units per second). Some of the research reports do not report the emission rate of the odor causing chemicals nor the emission rate of odor units, but rather the in-stack concentration of the compounds of interest.

Since information regarding emissions from SRC was not available, for this study, several research reports were consulted and used to estimate emissions from SRC. Emissions are a function not only of the process that generates the emissions but the nature and effectiveness of emission control systems, such as RTOs and scrubbers. Table 6-3 summarizes the results of the emission estimates found in various research studies. The literature cited for the data in Table 6-3 are noted in the footnotes.

**Table 6-3
Typical Emissions from Rendering Plants**

Case No.	Emission Source	Emission Controls	Emission Rate or In-Stack Concentration	Comments
1 ²¹	Process and Room Air	None	3,000 to 50,000 OU	
2 ²²	Process Air Only	None	21,000 to 600,000 OU	
3 ²³	Total Organic Gases	Unknown – Assumed Controlled	0.6 to 2.3 tons per year	
4 ²⁴	Volatile Organic Gases	None	3,273 to 3,685 mg/m ³	

Table 6-3 (continued)

²¹ Sironi, et al., Odour Emission Factors for Assessment and Prediction of Italian Rendering Plants Odour Impact, *Chemical Engineering Journal* 131 (2007), page 225 ff.

²² *ibid.*

²³ Emission Reports of Four California Rendering Plants. Data obtained from the California Air Resources Board Facility Emission Inventory Database, available at <http://www.arb.ca.gov/ei/disclaim.htm>. The four plants are the D&D Disposal, Vernon, CA; North State Rendering, Oroville, CA; Baker Commodities, Vernon, CA; and Baker Commodities, Kerman, CA.

²⁴ Bhatti, ZA, et. al., Rendering Plant Emissions of Volatile Organic Compounds During Sterilization and Cooking Processes, *Environmental Technology*, May – Jun 2014, 35(9-12):1321-7.

Typical Emissions from Rendering Plants

Case No.	Emission Source	Emission Controls	Emission Rate or In-Stack Concentration	Comments
5 ²⁵	Scrubber Outlet, Plant C	Scrubber	203,000 OU	
6 ²⁶	Biofilter Outlet, Plant E	Biofilter	19,100 OU	
7 ²⁷	Biofilter Inlet, Plant E	None	220,000 OU	
8 ²⁸	Various Scrubber Inlets, Plant C	None	161,000 to 335,000 OU	
9 ²⁹	Scrubber Inlet, Plant E	None	8,700,000 OU	Maximum value reported
10 ³⁰	Methyl Mercaptan, Plant C	Scrubber	5,388 ppbv	
11 ³¹	Methyl Mercaptan, Plant D	None	429,414 ppbv	Inlet to a plant incinerator
12 ³²	Hydrogen Sulfide, Plant D	None	475,739 ppbv	Inlet to a plant incinerator
13 ³³	Methyl Mercaptan, Plant E	None	24,661 ppbv	
14 ³⁴	Hydrogen Sulfide, Plant E	None	114,895 ppbv	

mg/m³ = milligrams per cubic meter. ppbv = parts per billion by volume.

6.3 POTENTIAL AMBIENT CONCENTRATIONS OF ODOR-CAUSING CHEMICALS AT SRC

The emission rates shown in Table 6-3 for typical rendering plants and an assumed control efficiency of the air pollution control devices at SRC can be coupled with the atmospheric dilution factors found in the AERMOD model to calculate an estimated ambient concentration of odor-causing chemicals at the two maximally-exposed receptors: the PMI located at the existing housing east of SRC and the maximum impact point at the proposed Jackson Township to the west of SRC.

When the emission estimates are in terms of concentration (i.e., odor units, concentration of a specific compound in terms of parts per billion by volume [ppbv], or concentration of a specific

²⁵ Investigation of Odorous Gas Emissions from Meat and Rendering Plants, RPDA.303, Meat & Livestock Australia Research Final Report, CH2MHill Australia Pty. Ltd., ISBN 1 74036 073 7, August 1999.

²⁶ *ibid.*

²⁷ *ibid.*

²⁸ *ibid.*

²⁹ *ibid.*

³⁰ *ibid.*

³¹ *ibid.*

³² *ibid.*

³³ *ibid.*

³⁴ *ibid.*

compound in terms of milligrams per cubic meter [mg/m^3]), the ambient concentration at the receptor of interest is calculated as follows:

$$\text{Ambient Concentration} = \text{Uncontrolled In-Stack Concentration (OU, ppbv, } \text{mg}/\text{m}^3) \times [(1 - \text{Air Pollution Control Device Efficiency}), \text{ percent}] \times \text{Atmospheric Dilution Factor}$$

When the emission estimates are in terms of tons per year, the ambient concentration is calculated as follows:

$$\text{Ambient Concentration} = \text{Uncontrolled Emissions (tons per year converted to } \text{g}/\text{sec}) \times [(1 - \text{Air Pollution Control Device Efficiency}), \text{ percent}] \times \text{Normalized Concentration (} \text{ug}/\text{m}^3 \text{ per } \text{g}/\text{sec})$$

The emission control effectiveness for scrubbers alone was conservatively assumed to be 69 percent based on a study that evaluated emission controls at rendering plants. (Note that this low efficiency is typically associated with plain water scrubbers. Addition of oxidizing agents to the scrubbing liquid can greatly increase the efficiency of scrubbers; but to be conservative, the 69 percent value was used.) Emission control effectiveness for RTOs was assumed to be 99% based on the same study³⁵. The combination of emissions control for scrubbers plus an RTO (as is used for at least some of the emission streams at SRC, see Table 2-1) is, therefore, 99.7 percent $[(1-0.69) \times (1-0.99) = 0.003 = (1 - 0.997)]$.

Table 6-4 presents the results of the ambient concentration calculations for the cases in Table 6-3. The calculations in Table 6-4 use the air pollution control equipment that SRC employs. As noted in Table 2-1, some of the emission streams at SRC are controlled by two devices, a scrubber and an RTO, while some of the other emission streams are controlled only by scrubbers. Therefore, ambient concentrations for both types of emission control are shown in Table 6-4.

Example calculations for the values shown in Table 6-4 are as follows:

Example 1: Case 1, Emissions in Terms of Odor Units, Scrubber Alone, PMI

$$\text{Ambient Concentration} = 3,000 \text{ OU Inlet Concentration to Scrubber} \times (1-0.69) \text{ Control Efficiency of a Scrubber} \times 0.00022 \text{ Atmospheric Dilution Factor at PMI} = 0.20 \text{ OU.}$$

Example 2: Case 3, Emissions in Terms of Tons Per Year, No Additional Control, Jackson Impact Point

$$\text{Ambient Concentration} = [0.12 \text{ tons per year} \times (1 \text{ yr} / 8760 \text{ hours} \times (1 \text{ hour} / 3600 \text{ seconds}) \times 2000 \text{ pounds per ton} \times 453.6 \text{ grams per pound}] \times (1 - 0) \text{ Additional Emission Control Efficiency} = 0.0034 \text{ g}/\text{sec} \times 3.7 \text{ ug}/\text{m}^3 \text{ per } 1 \text{ g}/\text{sec} \text{ emissions} = 0.013 \text{ ug}/\text{m}^3.$$

³⁵ Sironi, et al., op.cit.

Example 3: Case 13, Emissions in Terms of Compound Concentration, Scrubber + RTO, PMI

Ambient Concentration = 24,661 ppbv inlet concentration of methyl mercaptan x (1-0.997) Control Efficiency of a Scrubber + RTO x 0.00022 Atmospheric Dilution Factor at PMI = 0.02 ppbv methyl mercaptan.

**Table 6-4
Potential Ambient Concentration from Odor-Causing Emissions at Receptors of Interest**

Case No.	Emission Rate or In-Stack Concentration After Noted Controls from Original Research	Air Pollution Control Systems Assumed for Emission Stream at SRC	Additional Control Efficiency (Note 1)	Ambient Concentration at PMI	Ambient Concentration at Jackson
1a	3,000 to 50,000 OU (no control)	Scrubber	69%	0.20 to 3.41 OU	0.15 to 2.48 OU
1b		Scrubber + RTO	99.7%	0.002 to 0.03 OU	0.001 to 0.02 OU
2	21,000 to 600,000 OU (no control)	Scrubber + RTO	99.7%	0.01 to 0.40 OU	0.01 to 0.29 OU
3	0.6 to 2.3 tons per year TOG, or 0.12 to 0.40 tpy odor-causing chemicals (assumed controlled) Equivalent to 0.0038 to 0.013 g/sec odor-causing chemicals (assumed controlled) (Note 2)	No Additional Control	No additional control	0.020 to 0.065 ug/m ³ = If Butyric Acid 0.05 to 0.18 ppbv If Ethyl Mercaptan 0.07 to 0.25 ppbv (Note 3)	0.014 to 0.047 ug/m ³ = If Butyric Acid 0.04 to 0.13 ppbv If Ethyl Mercaptan 0.05 to 0.18 ppbv (Note 3)
4	3,273 to 3,685 mg/m ³ VOC (no control)	Scrubber + RTO	99.7%	0.0022 to 0.0024 mg/m ³ Aliphatic HC 29.24% If half Butyric Acid 0.64 to 0.70 ug/m ³ = 0.85 to 0.96 ppbv Aromatic HC 18.32% If half Indole 0.40 to 0.44 ug/m ³ = 0.40 to 0.45 ppbv (Note 4)	0.0016 to 0.0018 mg/m ³ Aliphatic HC 29.24% If half Butyric Acid 0.47 to 0.53 ug/m ³ = 0.62 to 0.70 ppbv Aromatic HC 18.32% If half Indole 0.29 to 0.33 ug/m ³ = 0.29 to 0.32 ppbv (Note 4)

Table 6-4 (continued)
Potential Ambient Concentration from Odor-Causing Emissions at Receptors of Interest

Case No.	Emission Rate or In-Stack Concentration After Noted Controls from Original Research	Air Pollution Control Systems Assumed for Emission Stream at SRC	Additional Control Efficiency (Note 1)	Ambient Concentration at PMI	Ambient Concentration at Jackson
5	203,000 OU (scrubber)	Scrubber + RTO	Additional 99%	0.45 OU	0.32 OU
6	19,100 OU (biofilter)	Biofilter	No additional control	4.2 OU	3.1 OU
6a		Biofilter + RTO	Additional 99%	0.04 OU	0.03 OU
7	220,000 OU (no control)	Scrubber + RTO	99.7%	0.15 OU	0.11 OU
8	161,000 to 335,000 OU (no control)	Scrubber + RTO	99.7%	0.11 to 0.22 OU	0.08 to 0.16 OU
9	8,700,000 OU (no control)	Scrubber + RTO	99.7%	5.74 OU	4.18 OU
10	Methyl Mercaptan 5,388 ppbv (scrubber)	Scrubber + RTO	Additional 99%	0.012 ppbv	0.009 ppbv
11	Methyl Mercaptan 429,414 ppbv (no control)	Scrubber + RTO	99.7%	0.28 ppbv	0.21 ppbv
12	Hydrogen Sulfide 475,739 ppbv (no control)	Scrubber + RTO	99.7%	0.31 ppbv	0.23 ppbv

Table 6-4 (continued)
Potential Ambient Concentration from Odor-Causing Emissions at Receptors of Interest

Case No.	Emission Rate or In-Stack Concentration After Noted Controls from Original Research	Air Pollution Control Systems Assumed for Emission Stream at SRC	Additional Control Efficiency (Note 1)	Ambient Concentration at PMI	Ambient Concentration at Jackson
13	Methyl Mercaptan 24,661 ppbv (no control)	Scrubber + RTO	99.7%	0.02 ppbv	0.01 ppbv
14	Hydrogen Sulfide 114,895 ppbv (no control)	Scrubber + RTO	99.7%	0.08 ppbv	0.06 ppbv

Note 1: When the emissions from the original research for a specific case already include a scrubber (i.e., the emission estimates were after the scrubber), then the additional control efficiency is zero for scrubbers and only 99% for the RTO. When the case has extremely high concentrations of odor-causing chemicals, it is assumed that SRC controls those emission streams with both a scrubber and RTO.

Note 2: Research indicates that less than about 20 percent of the TOG emissions from rendering plants are associated with odors.³⁶

Note 3: A conservative assumption was made that all of the odor-causing chemicals have an odor detection and recognition threshold of butyric acid or ethyl Mercaptan. For butyric acid, 1 ug/m³ is equivalent to 2.7 ppb and for ethyl mercaptan, 1 ug/m³ is equivalent to 3.8 ppbv.

Note 4: Research indicates that 29.24 percent of VOC emissions from rendering plants are aliphatic hydrocarbons, and 18.32 percent are aromatic hydrocarbons³⁷. A conservative assumption was made that half of the aliphatic hydrocarbons are butyric acid and half of the aromatic hydrocarbons are indole. For butyric acid, 1 ug/m³ is equivalent to 2.7 ppb and for indole, 1 ug/m³ is equivalent to 2.0 ppbv.

³⁶ Van Langenhove, HJ., Gas Chromatography/Mass Spectrometry Identification of Organic Volatiles Contributing to Rendering Odors, *Environmental Science & Technology*, Vol 16., No. 12, 1982, pages 883 ff.

³⁷ Bhatti, ZA, et al., op. cit.

6.4 Interpretation of Model Results

The ambient concentration results for the PMI and the Jackson maximum impact point can be interpreted in terms of odor detection thresholds and odor recognition thresholds. As discussed previously, the BAAQMD established an odor standard of 4 OU. This standard could be used as a recognition threshold. Detection of odors is more complex, but considering the definition of the odor unit, an OU of 1 or less could be considered a detection threshold. For specific chemicals, Table 5-1 shows the applicable detection and recognition thresholds. The ambient concentrations calculated in Table 6-4 are compared to these thresholds as shown in Table 6-5.

**Table 6-5
Comparison of Ambient Concentrations to Odor Thresholds**

Case No.	Ambient Conc. Unit	Odor Detection Threshold	Odor Recognition Threshold	Ambient Conc. at PMI	PMI Exceeds Detect.?	PMI Exceeds Recog.?	Ambient Conc. at Jackson	Jackson Exceeds Detect.?	Jackson Exceeds Recog.?
1a	OU	<1	4	0.20 to 3.41	Poss.	No	0.15 - 2.48	Poss.	No
1b	OU	<1	4	0.002 to 0.03	No	No	0.001 - 0.02	No	No
2	OU	<1	4	0.01 to 0.40	No	No	0.01 - 0.29	No	No
3	ppbv	Butyric Acid 0.5	Butyric Acid 1.0	0.05 to 0.18	No	No	0.04 to 0.13	No	No
3	ppbv	Ethyl Mercaptan 0.35	Ethyl Mercaptan 1.0	0.07 to 0.25	No	No	0.05 to 0.18	No	No
4	ppbv	Butyric Acid 0.5	Butyric Acid 1.0	0.85 to 0.96	Yes	No	0.62 to 0.70	Yes	No
4	ppbv	Indole 0.1	Indole 1.0	0.40 to 0.45	Yes	No	0.29 to 0.32	Yes	No
5	OU	<1	4	0.45	No	No	0.32	No	No
6	OU	<1	4	4.2	Yes	Yes	3.1	Yes	No
6a	OU	<1	4	0.04	No	No	0.03	No	No
7	OU	<1	4	0.15	No	No	0.11	No	No
8	OU	<1	4	0.11 to 0.22	No	No	0.08 to 0.16	No	No
9	OU	<1	4	5.74	Yes	Yes	4.18	Yes	Poss.

Table 6-5 (continued)
Comparison of Ambient Concentrations to Odor Thresholds

Case No.	Ambient Conc. Unit	Odor Detection Threshold	Odor Recognition Threshold	Ambient Conc. at PMI	PMI Exceeds Detect.?	PMI Exceeds Recog.?	Ambient Conc. at Jackson	Jackson Exceeds Detect.?	Jackson Exceeds Recog.?
10	ppbv	Methyl Mercaptan 0.54	Methyl Mercaptan 1.0	0.012	No	No	0.009	No	No
11	ppbv	Methyl Mercaptan 0.54	Methyl Mercaptan 1.0	0.28	No	No	0.21	No	No
12	ppbv	Hydrogen Sulfide 0.5	Hydrogen Sulfide 4.7	0.31	No	No	0.23	No	No
13	ppbv	Methyl Mercaptan 0.54	Methyl Mercaptan 1.0	0.02	No	No	0.01	No	No
14	ppbv	Methyl Mercaptan 0.54	Methyl Mercaptan 1.0	0.08	No	No	0.06	No	No

Conc. – Concentration

Detect. – Detection

Poss. – Possible

Recog. – Recognition

There are a total of 18 different emission estimates presented in Table 6-5, and in only one case did the calculations indicated the possibility of a detectable and recognizable odor at the Jackson maximum impact point (Case 9). However, the modeled concentration for that case is only 5 percent greater than the 4.0 OU BAAQMD ambient standard. In 4 more of the 18 cases, the calculations indicated a potential for a detectable, but not recognizable, odor at the Jackson maximum impact point. Note that the results of Table 6-5 do not indicate that an odor would necessarily actually be detected at the Jackson Township, but only that if the assumed emissions and maximum modeled concentration occur at the same time, there is a potential for odor detection.

Table 6-5 also shows that the potential for detectable and recognizable odors at the existing housing to the east of SRC is greater than at Jackson Township, because the atmospheric dilution from SRC to the eastern housing is not as great as for Jackson Township, so the ambient concentrations would be higher. However, for both Jackson and the PMI, the potential for odors appears very small because the emissions from SRC are well controlled and the distance from SRC to the housing is considerable. This result is consistent with the recent dramatic decline in odor complaints associated with SRC recorded by SMAQMD.

Note also that the results shown in Table 6-5 are for the maximum impact points only and the maximum 1-hour concentration out of five years of meteorological data (the maximum single hour out of a total of 43,800 hours). As shown in the wind rose of Attachment B, the wind is more than 10 times more likely to blow from SRC toward the housing to the east and north of SRC than from SRC toward the Jackson Township. The wind rose also shows that for over 95 percent of the time, the wind blows from SRC away from the Jackson Township.

Furthermore, it is important to recognize that the results in Table 6-5 are for the closest point of the Jackson Township to SRC. The Jackson Township extends for another 1.5 miles further west of the Jackson maximum impact point, and since odor detection falls off rapidly with distance, for the vast majority of the Jackson Township, no odors from SRC should be detectable or recognizable.

7 CONCLUSION

This evaluation of the potential for odors at the Jackson Township arising from the SRC facility indicate that although it is possible for detectable odors to occur at the maximum

impact point at the Jackson Township, the frequency of such odors, if any, will be very low. Any detectable odors at the Jackson Township are at least 10 times less likely than for the existing housing to the north and east of SRC. This conclusion is based on the effectiveness of the emission control systems employed by SRC, the distance from SRC to the Jackson Township, and the documented prevailing wind direction in the vicinity.

8 LIMITATIONS

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of Kleinfelder's profession practicing in the same locality, under similar conditions and at the date the services are provided. Our conclusions, opinions, and recommendations are based on a limited number of observations and data. It is possible that conditions could vary between or beyond the data evaluated. Kleinfelder makes no other representation, guarantee, or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided. This report may be used only for the Jackson Township Specific Plan by Tsakopoulos Investments and only for the purposes stated for this specific engagement within a reasonable time from its issuance, but in no event later than two years from the date of the report.

The work performed was based on project information provided by Tsakopoulos Investments. Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the facility and conditions present due to the limitations of data. Although risk can never be eliminated, more detailed and extensive studies yield more information, which may help understand and manage the level of risk. Since detailed study and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies should be performed to reduce uncertainties. Acceptance of this report will indicate that Tsakopoulos Investments has reviewed the document and determined that it does not need or want a greater level of service than provided. Tsakopoulos Investments is solely responsible for required notifications, if any, to all regulatory and governmental agencies regarding observations contained in this report.

ATTACHMENT A

Figure 1: SRC Location and Modeling Receptors



--- Proposed Jackson Township Boundary

Google earth

miles
km



6



PROJECT NO.	20160234
DRAWN:	5/28/15
DRAWN BY:	SAW/JWD
CHECKED BY:	REE
FILE NAME:	Odor Study Fig1.ppt

SRC Location and Modeling Receptors

POTENTIAL ODORS FROM SACRAMENTO RENDERING COMPANY AT THE PROPOSED JACKSON TOWNSHIP SACRAMENTO, CALIFORNIA

FIGURE

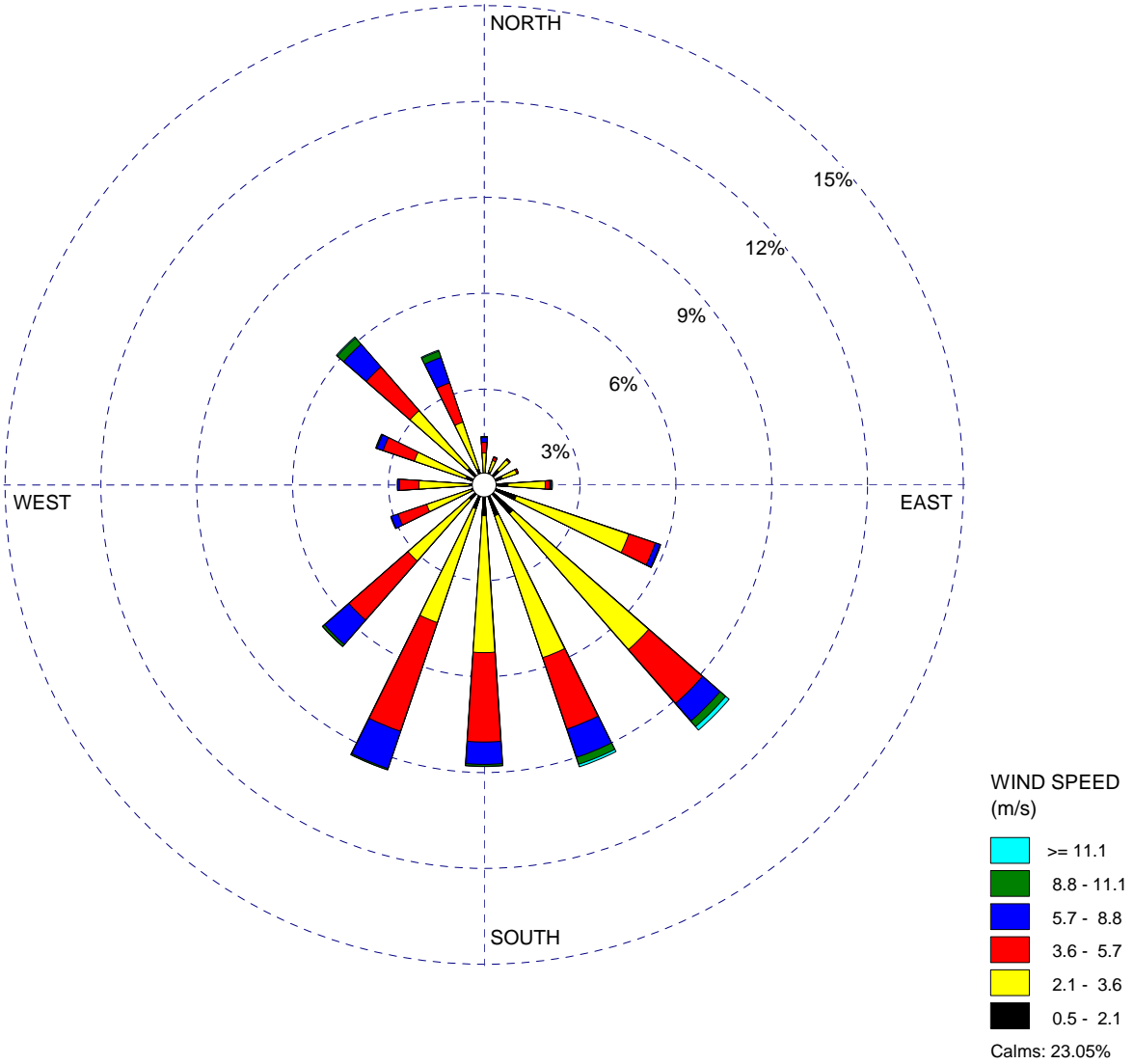
1

ATTACHMENT B

Mather Airport Wind Rose 2009 - 2013

WIND ROSE PLOT:

**Figure 2 Jackson Township Development
Sacramento Mather Airport 2009-2013**



COMMENTS:

Wind Speed (m/s)
Direction (blowing from)

DATE:
4/28/2015

PROJECT NO.:
20160234.001A

ATTACHMENT C

Dispersion Model Output Report

**BEE-Line Software: BEEST for Windows (Version 10.16) data input file
** Model: AERMOD.EXE Input File Creation Date: 4/17/2015 Time: 9:12:07 AM
NO ECHO

BEE-Line AERMOD "BEEST" Version ***

Input File - C:\Beework\Jackson Township Development\Jackson_TownshipMather.DTA

Output File - C:\Beework\Jackson Township Development\Jackson_TownshipMather.LST

Met File - C:\Beework\Jackson Township Development\Mather MET\724833\724833.SFC

*** SETUP Finishes Successfully ***

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
*** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
*** PAGE 1

**MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --
**NO GAS DEPOSITION Data Provided.
**NO PARTICLE DEPOSITION Data Provided.
**Model Uses NO DRY DEPLETION. DRYDPLT = F
**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 479686.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:
1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay for URBAN/Non-SO2.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:
CCVR_Sub - Meteorological data includes CCVR substitutions
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR

**This Run Includes: 1 Source(s); 1 Source Group(s); and 152 Receptor(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 30.48 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

**Input Runstream File: Jackson_TownshipMather.DTA
**Output Print File: Jackson_TownshipMather.LST

**File for Summary of Results: C:\Beework\Jackson Township Development\Jackson_TownshipMather.SUM

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
*** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
*** PAGE 2

**MODELOPTs: RegDEFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/HOR	EMIS RATE SCALAR VARY BY
REN	0	0.10000E+01	652517.0	4265346.0	44.1	10.67	322.04	17.42	1.83	YES	YES	NO	
*** AERMOD - VERSION	14134	***	*** Jackson Township Development								***	04/17/15	
*** AERMET - VERSION	14134	***	*** Odor Modeling - Sacramento Mather Airport MET Data								***	09:12:09	
**MODELOPTs:	RegDFAULT CONC	ELEV	NODRYDPLT	NOWETDPLT									

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
ALL	REN
*** AERMOD - VERSION	14134
*** AERMET - VERSION	14134
**MODELOPTs:	RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
479686.	REN	
*** AERMOD - VERSION	14134	***
*** AERMET - VERSION	14134	***
**MODELOPTs:	RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT	

*** DIRECTION SPECIFIC BUILDING DIMENSIONS ***

SOURCE ID: REN											
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH	BW	BL	XADJ	YADJ
1	6.1	92.6	77.8	-19.8	-18.6	2	6.1	100.3	90.3	-22.9	-15.6
3	6.1	105.0	100.1	-25.4	-12.2	4	6.1	106.5	106.8	-27.0	-8.4
5	6.1	104.8	110.2	-27.9	-4.3	6	6.1	99.9	110.3	-27.9	-0.1
7	6.1	91.9	107.1	-27.1	4.1	8	6.1	81.2	100.6	-25.4	8.2
9	6.1	69.0	91.0	-23.0	12.5	10	6.1	77.8	92.6	-27.7	19.2
11	6.1	90.3	100.3	-34.5	22.3	12	6.1	100.1	105.0	-40.3	24.7
13	6.1	106.8	106.5	-44.9	26.3	14	6.1	110.2	104.8	-48.1	27.2
15	6.1	110.3	99.9	-49.8	27.2	16	6.1	107.1	91.9	-50.1	26.4
17	6.1	100.6	81.2	-48.8	24.9	18	6.1	91.0	69.0	-47.0	22.5
19	6.1	92.6	77.8	-58.1	18.6	20	6.1	100.3	90.3	-67.4	15.6
21	6.1	105.0	100.1	-74.7	12.2	22	6.1	106.5	106.8	-79.7	8.4
23	6.1	104.8	110.2	-82.3	4.3	24	6.1	99.9	110.3	-82.4	0.1
25	6.1	91.9	107.1	-80.0	-4.1	26	6.1	81.2	100.6	-75.1	-8.2
27	6.1	69.0	91.0	-68.0	-12.5	28	6.1	77.8	92.6	-64.9	-19.2
29	6.1	90.3	100.3	-65.8	-22.3	30	6.1	100.1	105.0	-64.7	-24.7
31	6.1	106.8	106.5	-61.6	-26.3	32	6.1	110.2	104.8	-56.7	-27.2
33	6.1	110.3	99.9	-50.0	-27.2	34	6.1	107.1	91.9	-41.9	-26.4
35	6.1	100.6	81.2	-32.4	-24.9	36	6.1	91.0	69.0	-22.0	-22.5

*** AERMOD - VERSION	14134	***	*** Jackson Township Development								***	04/17/15
*** AERMET - VERSION	14134	***	*** Odor Modeling - Sacramento Mather Airport MET Data								***	09:12:09
**MODELOPTs:	RegDFAULT CONC	ELEV	NODRYDPLT	NOWETDPLT								

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(649746.0, 4266713.0, 33.0, 33.0, 0.0);	(650450.0, 4266995.0, 35.9, 35.9, 0.0);
(650816.0, 4267310.0, 37.8, 37.8, 0.0);	(650824.0, 4267891.0, 37.5, 37.5, 0.0);
(653174.0, 4267141.0, 49.5, 49.5, 0.0);	(653512.0, 4267154.0, 50.0, 50.0, 0.0);
(653533.0, 4266892.0, 49.5, 49.5, 0.0);	(653826.0, 4266949.0, 49.7, 49.7, 0.0);
(654067.0, 4267505.0, 49.9, 49.9, 0.0);	(653808.0, 4265626.0, 46.7, 46.7, 0.0);
(654422.0, 4266037.0, 49.5, 49.5, 0.0);	(654749.0, 4265739.0, 41.1, 41.1, 0.0);
(654758.0, 4266883.0, 52.5, 52.5, 0.0);	(654810.0, 4266076.0, 50.3, 50.3, 0.0);
(654157.0, 4265797.0, 41.7, 41.7, 0.0);	(654393.0, 4265739.0, 39.5, 39.5, 0.0);
(650708.0, 4264027.0, 40.8, 40.8, 0.0);	(650808.0, 4264027.0, 41.3, 41.3, 0.0);
(650308.0, 4264127.0, 41.4, 41.4, 0.0);	(650408.0, 4264127.0, 40.9, 40.9, 0.0);
(650508.0, 4264127.0, 40.5, 40.5, 0.0);	(650608.0, 4264127.0, 41.5, 41.5, 0.0);
(650708.0, 4264127.0, 41.9, 41.9, 0.0);	(650808.0, 4264127.0, 41.8, 41.8, 0.0);
(650308.0, 4264227.0, 41.7, 41.7, 0.0);	(650408.0, 4264227.0, 42.0, 42.0, 0.0);
(650508.0, 4264227.0, 39.9, 39.9, 0.0);	(650608.0, 4264227.0, 40.8, 40.8, 0.0);
(650708.0, 4264227.0, 41.9, 41.9, 0.0);	(650808.0, 4264227.0, 41.8, 41.8, 0.0);

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
*** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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**MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT
*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: 724833.SFC Met Version: 14134
Profile file: 724833.PFL
Surface format: FREE
Profile format: FREE
Surface station no.: 23206 Upper air station no.: 23230
Name: SACRAMENTO MATHER AIRPORT, CA Name: OAKLAND METROPOLITAN ARPT, CA
Year: 2009 Year: 2009

Table with 17 columns: YR MO DY JDY HR, H0, U*, W*, DT/DZ, ZICNV, ZIMCH, M-0 LEN, Z0, BOWEN, ALBEDO, REF WS, WD, HT, REF TA, HT. It contains 24 rows of meteorological data for the first 24 hours.

First hour of profile data
YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
09 01 01 01 10.0 1 -999. -99.00 277.2 99.0 -99.00 -99.00

F indicates top of profile (=1) or below (=0)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
*** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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**MODELOPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT
*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

Table with 8 columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). It lists discrete Cartesian receptor points with their coordinates and concentrations.

650108.00	4264226.00	3.19487	(10101320)	650208.00	4264226.00	3.42253	(10092720)
650308.00	4264226.00	3.57439	(10092720)	649908.00	4264326.00	2.84588	(10092802)
650008.00	4264326.00	2.92873	(10092802)	650108.00	4264326.00	2.93114	(10101320)
650208.00	4264326.00	3.16945	(10101320)	650308.00	4264326.00	3.31855	(10101320)
649908.00	4264426.00	3.26221	(10082321)	650008.00	4264426.00	3.17311	(10082321)
650108.00	4264426.00	2.98262	(10082321)	650208.00	4264426.00	3.02727	(10092802)
650308.00	4264426.00	3.05166	(10092802)	649908.00	4264526.00	3.41536	(10082321)
650008.00	4264526.00	3.50222	(10082321)	650108.00	4264526.00	3.54099	(10082321)
650208.00	4264526.00	3.43246	(10082321)	650308.00	4264526.00	3.26473	(10082321)
649908.00	4264626.00	2.95663	(10082321)	650008.00	4264626.00	3.17470	(10082321)
650108.00	4264626.00	3.36245	(10082321)	650208.00	4264626.00	3.53527	(10082321)
650308.00	4264626.00	3.59287	(10082321)	649908.00	4264726.00	2.95191	(10100820)
650008.00	4264726.00	2.99606	(11012119)	650108.00	4264726.00	3.01127	(11012119)
650208.00	4264726.00	3.00904	(11012119)	650308.00	4264726.00	3.18944	(10082321)
649908.00	4264826.00	2.98046	(10120501)	650008.00	4264826.00	3.04981	(10120501)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT PAGE 11

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	3.02096	(10120501)	650208.00	4264826.00	3.04032	(10100820)
650308.00	4264826.00	3.12184	(11012119)	649908.00	4264926.00	3.16908	(11092406)
650008.00	4264926.00	3.18695	(11092406)	650108.00	4264926.00	3.13855	(11092406)
650208.00	4264926.00	3.08144	(11092406)	650308.00	4264926.00	3.01548	(11092406)
649908.00	4265026.00	3.59268	(09040619)	650008.00	4265026.00	3.62207	(09040619)
650108.00	4265026.00	3.50575	(09040619)	650208.00	4265026.00	3.40163	(09040619)
650308.00	4265026.00	3.33906	(09040619)	649908.00	4265126.00	3.53454	(09040619)
650008.00	4265126.00	3.61892	(09040619)	650108.00	4265126.00	3.58535	(09040619)
650208.00	4265126.00	3.66386	(09040619)	650308.00	4265126.00	3.67680	(09040619)
649908.00	4265226.00	3.12103	(10022819)	650008.00	4265226.00	3.16031	(10022819)
650108.00	4265226.00	3.17630	(10022819)	650208.00	4265226.00	3.22526	(10022819)
650308.00	4265226.00	3.26688	(10022819)	649908.00	4265326.00	2.92422	(12100221)
650008.00	4265326.00	2.99027	(12100221)	650108.00	4265326.00	3.07092	(12100221)
650208.00	4265326.00	3.09011	(12100221)	650308.00	4265326.00	3.04383	(12100221)
649908.00	4265426.00	3.11680	(13042119)	650008.00	4265426.00	3.21517	(13042119)
650108.00	4265426.00	3.28818	(13042119)	650208.00	4265426.00	3.20535	(13042119)
650308.00	4265426.00	3.31007	(13042119)	649908.00	4265526.00	3.40852	(09091021)
650008.00	4265526.00	3.48035	(09091021)	650108.00	4265526.00	3.49485	(09091021)
650208.00	4265526.00	3.53164	(09091021)	650308.00	4265526.00	3.62080	(09091021)
649908.00	4265626.00	3.37833	(09091021)	650008.00	4265626.00	3.37259	(09091021)
650108.00	4265626.00	3.29953	(09091021)	650208.00	4265626.00	3.32731	(09091021)
650308.00	4265626.00	3.32448	(09091021)	649908.00	4265726.00	2.97302	(11122917)
650008.00	4265726.00	3.04590	(09012017)	650108.00	4265726.00	3.18626	(09012017)
650208.00	4265726.00	3.35097	(09012017)	650308.00	4265726.00	3.46294	(09012017)
649908.00	4265826.00	3.41132	(09012017)	650008.00	4265826.00	3.50365	(09012017)
650108.00	4265826.00	3.54285	(09012017)	650208.00	4265826.00	3.49803	(09012017)
650308.00	4265826.00	3.47106	(09012017)	649908.00	4265926.00	3.27061	(09012017)
650008.00	4265926.00	3.17119	(09012017)	650108.00	4265926.00	3.08359	(09012017)
650208.00	4265926.00	3.10600	(09082622)	650308.00	4265926.00	2.98201	(09082622)
649908.00	4266026.00	2.99117	(09082622)	650008.00	4266026.00	2.94519	(13032319)
650108.00	4266026.00	3.06367	(13032319)	650208.00	4266026.00	3.18055	(13062902)
650308.00	4266026.00	3.36880	(13062902)	649908.00	4266126.00	3.09980	(13062902)
650008.00	4266126.00	3.27914	(13062902)	650108.00	4266126.00	3.37964	(13062902)
650208.00	4266126.00	3.60541	(13062902)	650308.00	4266126.00	3.62011	(13062902)
649908.00	4266226.00	3.35036	(13062902)	650008.00	4266226.00	3.42010	(13062902)
650108.00	4266226.00	3.34454	(13062902)	650208.00	4266226.00	3.40526	(09042122)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT PAGE 12

*** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.93635	(12061523)	650450.00	4266995.00	2.91293	(12081406)
650816.00	4267310.00	2.82578	(12070701)	650824.00	4267891.00	2.78570	(13062801)
653174.00	4267141.00	3.77355	(13062920)	653512.00	4267154.00	3.65615	(10062722)
653533.00	4266892.00	3.94792	(10090619)	653826.00	4266949.00	3.45517	(09092520)
654067.00	4267505.00	3.19155	(13070405)	653808.00	4265626.00	4.88517	(12100818)
654422.00	4266037.00	3.05954	(12080619)	654749.00	4265739.00	2.81989	(10120618)
654758.00	4266883.00	3.32317	(11082319)	654810.00	4266076.00	2.88998	(12042001)
654157.00	4265797.00	3.49500	(10052719)	654393.00	4265739.00	3.00833	(12100818)
650708.00	4264027.00	2.89167	(12020723)	650808.00	4264027.00	3.09329	(09092707)
650308.00	4264127.00	3.30617	(13081906)	650408.00	4264127.00	3.08221	(13081906)
650508.00	4264127.00	2.97618	(10092421)	650608.00	4264127.00	3.04734	(12100224)

650708.00	4264127.00	3.02464	(12100224)	650808.00	4264127.00	2.88081	(10090204)
650308.00	4264227.00	3.29712	(13081906)	650408.00	4264227.00	3.41727	(13081906)
650508.00	4264227.00	3.24427	(13081906)	650608.00	4264227.00	3.01569	(13081906)
650708.00	4264227.00	3.07839	(10092421)	650808.00	4264227.00	3.06419	(12100224)
650308.00	4264327.00	3.24943	(10092720)	650408.00	4264327.00	3.26071	(10101320)
650508.00	4264327.00	3.25540	(13081906)	650608.00	4264327.00	3.35575	(13081906)
650708.00	4264327.00	3.22077	(13081906)	650808.00	4264327.00	2.94591	(10092421)
650308.00	4264427.00	2.95611	(09052606)	650408.00	4264427.00	3.05504	(13012606)
650508.00	4264427.00	3.13467	(10092720)	650608.00	4264427.00	3.32724	(10101320)
650708.00	4264427.00	3.34320	(13081906)	650808.00	4264427.00	3.35269	(13081906)
650308.00	4264527.00	3.01326	(10092522)	650408.00	4264527.00	2.91373	(10082321)
650508.00	4264527.00	2.90479	(09052606)	650608.00	4264527.00	3.07248	(13012606)
650708.00	4264527.00	3.20063	(10092720)	650808.00	4264527.00	3.28289	(10101320)
650308.00	4264126.00	3.30310	(13081906)	650008.00	4264226.00	2.95268	(13012606)
650108.00	4264226.00	3.15246	(10092720)	650208.00	4264226.00	3.19984	(10101320)
650308.00	4264226.00	3.30023	(13081906)	649908.00	4264326.00	2.78004	(09052606)
650008.00	4264326.00	2.85769	(09052606)	650108.00	4264326.00	2.92819	(13012606)
650208.00	4264326.00	3.04866	(13012606)	650308.00	4264326.00	3.25513	(10092720)
649908.00	4264426.00	2.92897	(10092522)	650008.00	4264426.00	2.92966	(10092522)
650108.00	4264426.00	2.91351	(10092802)	650208.00	4264426.00	2.93914	(09052606)
650308.00	4264426.00	2.95777	(13012606)	649908.00	4264526.00	2.81677	(10092522)
650008.00	4264526.00	2.96319	(10092522)	650108.00	4264526.00	3.07696	(10092522)
650208.00	4264526.00	3.07002	(10092522)	650308.00	4264526.00	3.00956	(10092522)
649908.00	4264626.00	2.88512	(10121023)	650008.00	4264626.00	2.94001	(10121023)
650108.00	4264626.00	2.94756	(10121023)	650208.00	4264626.00	2.91784	(10121023)
650308.00	4264626.00	3.01791	(10092522)	649908.00	4264726.00	2.93431	(10101320)
650008.00	4264726.00	2.92662	(10100820)	650108.00	4264726.00	2.84856	(13032923)
650208.00	4264726.00	2.96735	(10082321)	650308.00	4264726.00	3.01149	(10121023)
649908.00	4264826.00	2.89865	(10012417)	650008.00	4264826.00	2.96410	(10012417)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 PAGE 13

**MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT
 *** THE 2ND HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3				**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.95678	(10100820)	650208.00	4264826.00	3.03333	(10120501)
650308.00	4264826.00	3.04230	(10100820)	649908.00	4264926.00	2.93232	(09040619)
650008.00	4264926.00	2.87772	(09041904)	650108.00	4264926.00	2.87967	(09041904)
650208.00	4264926.00	2.90910	(11011724)	650308.00	4264926.00	2.97231	(10120501)
649908.00	4265026.00	2.97482	(10120503)	650008.00	4265026.00	3.05061	(11092406)
650108.00	4265026.00	3.06216	(11092406)	650208.00	4265026.00	3.08791	(11092406)
650308.00	4265026.00	3.15774	(11092406)	649908.00	4265126.00	2.96470	(10022819)
650008.00	4265126.00	2.99390	(10120503)	650108.00	4265126.00	2.97792	(10120503)
650208.00	4265126.00	3.03292	(10120503)	650308.00	4265126.00	3.04163	(10120503)
649908.00	4265226.00	2.94279	(11062124)	650008.00	4265226.00	2.92065	(11062124)
650108.00	4265226.00	2.88192	(09040619)	650208.00	4265226.00	2.97056	(09040619)
650308.00	4265226.00	3.05386	(09040619)	649908.00	4265326.00	2.82524	(10101321)
650008.00	4265326.00	2.88588	(10101321)	650108.00	4265326.00	2.95607	(10101321)
650208.00	4265326.00	2.98076	(10101321)	650308.00	4265326.00	2.96449	(10022819)
649908.00	4265426.00	2.99188	(10101321)	650008.00	4265426.00	3.06215	(10101321)
650108.00	4265426.00	3.11254	(10101321)	650208.00	4265426.00	3.05369	(10101321)
650308.00	4265426.00	3.15311	(11012118)	649908.00	4265526.00	3.24507	(13042119)
650008.00	4265526.00	3.24780	(13042119)	650108.00	4265526.00	3.21966	(11012118)
650208.00	4265526.00	3.25660	(11012118)	650308.00	4265526.00	3.31547	(11012118)
649908.00	4265626.00	2.98372	(12042024)	650008.00	4265626.00	3.03324	(12042024)
650108.00	4265626.00	3.02940	(12042024)	650208.00	4265626.00	3.10888	(12042024)
650308.00	4265626.00	3.16484	(12042024)	649908.00	4265726.00	2.95933	(12081002)
650008.00	4265726.00	2.97639	(10121421)	650108.00	4265726.00	3.00302	(10121421)
650208.00	4265726.00	3.08286	(10120420)	650308.00	4265726.00	3.12037	(10120420)
649908.00	4265826.00	2.99639	(10120420)	650008.00	4265826.00	3.01618	(10120420)
650108.00	4265826.00	2.98924	(10120420)	650208.00	4265826.00	2.96721	(13050302)
650308.00	4265826.00	3.01127	(13050302)	649908.00	4265926.00	2.89708	(13050302)
650008.00	4265926.00	2.90500	(09082622)	650108.00	4265926.00	3.04995	(09082622)
650208.00	4265926.00	3.02408	(10101420)	650308.00	4265926.00	2.97937	(13032319)
649908.00	4266026.00	2.91682	(10101420)	650008.00	4266026.00	2.90222	(12072103)
650108.00	4266026.00	3.02181	(12072103)	650208.00	4266026.00	3.15163	(13032319)
650308.00	4266026.00	3.27689	(13083022)	649908.00	4266126.00	3.02557	(13032319)
650008.00	4266126.00	3.19385	(13083022)	650108.00	4266126.00	3.29059	(13083022)
650208.00	4266126.00	3.50820	(13083022)	650308.00	4266126.00	3.52113	(13083022)
649908.00	4266226.00	3.26460	(13083022)	650008.00	4266226.00	3.33128	(13083022)
650108.00	4266226.00	3.30206	(09042122)	650208.00	4266226.00	3.35532	(13062902)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 PAGE 14

**MODELOPTs: RegDFault CONC ELEV NODRYDPLT NOWETDPLT
 *** THE 3RD HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3				**	
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.83234	(12102718)	650450.00	4266995.00	2.79621	(12042022)
650816.00	4267310.00	2.81022	(13071921)	650824.00	4267891.00	2.77597	(12121017)
653174.00	4267141.00	3.71757	(13070420)	653512.00	4267154.00	3.38073	(12072220)
653533.00	4266892.00	3.65742	(12081019)	653826.00	4266949.00	3.38959	(12081320)
654067.00	4267505.00	3.04177	(12100219)	653808.00	4265626.00	4.64072	(13041420)
654422.00	4266037.00	2.98746	(10061620)	654749.00	4265739.00	2.66366	(12100918)
654758.00	4266883.00	3.12699	(10082322)	654810.00	4266076.00	2.88502	(10061620)
654157.00	4265797.00	3.45925	(12100818)	654393.00	4265739.00	2.82914	(11100318)
650708.00	4264027.00	2.86855	(09092707)	650808.00	4264027.00	2.93182	(09092606)
650308.00	4264127.00	3.29427	(10092720)	650408.00	4264127.00	2.99399	(13012508)
650508.00	4264127.00	2.94749	(09012117)	650608.00	4264127.00	3.04234	(10092421)
650708.00	4264127.00	3.00620	(10090204)	650808.00	4264127.00	2.83997	(12020723)
650308.00	4264227.00	3.16882	(12020618)	650408.00	4264227.00	3.28850	(12020618)
650508.00	4264227.00	3.22419	(10092720)	650608.00	4264227.00	2.95845	(13012508)
650708.00	4264227.00	3.02896	(09012117)	650808.00	4264227.00	2.98938	(10092421)
650308.00	4264327.00	3.05804	(13012606)	650408.00	4264327.00	3.06542	(10090205)
650508.00	4264327.00	3.14576	(12020618)	650608.00	4264327.00	3.24501	(12020618)
650708.00	4264327.00	3.19089	(10092720)	650808.00	4264327.00	2.90099	(13081906)
650308.00	4264427.00	2.95377	(13012606)	650408.00	4264427.00	2.95714	(13050324)
650508.00	4264427.00	3.01465	(13012606)	650608.00	4264427.00	3.18063	(10090205)
650708.00	4264427.00	3.21222	(12020618)	650808.00	4264427.00	3.23475	(12020618)
650308.00	4264527.00	2.88923	(10092802)	650408.00	4264527.00	2.86066	(11012021)
650508.00	4264527.00	2.83590	(13012606)	650608.00	4264527.00	3.01775	(10092802)
650708.00	4264527.00	3.00629	(13012606)	650808.00	4264527.00	3.04687	(10090205)
650308.00	4264126.00	3.28853	(10092720)	650008.00	4264226.00	2.86523	(11092207)
650108.00	4264226.00	2.93955	(13012606)	650208.00	4264226.00	3.02739	(13081906)
650308.00	4264226.00	3.17206	(12020618)	649908.00	4264326.00	2.72325	(11012021)
650008.00	4264326.00	2.74020	(13031223)	650108.00	4264326.00	2.92550	(10092802)
650208.00	4264326.00	2.96133	(11092207)	650308.00	4264326.00	3.05538	(13012606)
649908.00	4264426.00	2.78803	(10021220)	650008.00	4264426.00	2.86637	(10021220)
650108.00	4264426.00	2.83705	(10092522)	650208.00	4264426.00	2.84610	(11012021)
650308.00	4264426.00	2.95438	(09052606)	649908.00	4264526.00	2.79109	(10121023)
650008.00	4264526.00	2.81148	(13050306)	650108.00	4264526.00	2.91531	(13050306)
650208.00	4264526.00	2.90647	(13050306)	650308.00	4264526.00	2.89345	(10092802)
649908.00	4264626.00	2.79549	(11012119)	650008.00	4264626.00	2.77385	(09011521)
650108.00	4264626.00	2.78163	(09011521)	650208.00	4264626.00	2.88959	(10092522)
650308.00	4264626.00	2.85518	(13050306)	649908.00	4264726.00	2.85589	(10120501)
650008.00	4264726.00	2.80977	(13032923)	650108.00	4264726.00	2.84762	(09041901)
650208.00	4264726.00	2.95441	(10121023)	650308.00	4264726.00	2.95636	(11012119)
649908.00	4264826.00	2.89442	(11011724)	650008.00	4264826.00	2.94116	(10100820)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFault CONC ELEV NODRYPLT NOWETDPLT PAGE 15

*** THE 3RD HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER				IN MICROGRAMS/M**3			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.93208	(10012417)	650208.00	4264826.00	3.02822	(11012119)
650308.00	4264826.00	2.96599	(10120501)	649908.00	4264926.00	2.86203	(10011519)
650008.00	4264926.00	2.87333	(10011519)	650108.00	4264926.00	2.86002	(11011724)
650208.00	4264926.00	2.87347	(10120501)	650308.00	4264926.00	2.94684	(11020818)
649908.00	4265026.00	2.92133	(11092406)	650008.00	4265026.00	2.98546	(10120503)
650108.00	4265026.00	2.89766	(10120503)	650208.00	4265026.00	2.86502	(10012419)
650308.00	4265026.00	2.88289	(10012419)	649908.00	4265126.00	2.93051	(10120503)
650008.00	4265126.00	2.98065	(10022819)	650108.00	4265126.00	2.93706	(10022819)
650208.00	4265126.00	2.97211	(10121120)	650308.00	4265126.00	2.98048	(10121120)
649908.00	4265226.00	2.90866	(13042120)	650008.00	4265226.00	2.89797	(09102320)
650108.00	4265226.00	2.87005	(09102320)	650208.00	4265226.00	2.89360	(09102320)
650308.00	4265226.00	2.90707	(09102320)	649908.00	4265326.00	2.80170	(09011319)
650008.00	4265326.00	2.86204	(11082301)	650108.00	4265326.00	2.93176	(11082301)
650208.00	4265326.00	2.95865	(11091002)	650308.00	4265326.00	2.95700	(10101321)
649908.00	4265426.00	2.94763	(10120504)	650008.00	4265426.00	3.00389	(10120504)
650108.00	4265426.00	3.04320	(10120504)	650208.00	4265426.00	3.05247	(11012118)
650308.00	4265426.00	3.12345	(10101321)	649908.00	4265526.00	3.13307	(11012118)
650008.00	4265526.00	3.19087	(11012118)	650108.00	4265526.00	3.17710	(13042119)
650208.00	4265526.00	3.13149	(13042119)	650308.00	4265526.00	3.14320	(13042119)
649908.00	4265626.00	2.88059	(11012118)	650008.00	4265626.00	2.88013	(11091303)
650108.00	4265626.00	2.90120	(11122917)	650208.00	4265626.00	3.00885	(11122917)
650308.00	4265626.00	3.09726	(11122917)	649908.00	4265726.00	2.94568	(10101023)
650008.00	4265726.00	2.96087	(11122917)	650108.00	4265726.00	2.99334	(10120420)
650208.00	4265726.00	3.03997	(10121421)	650308.00	4265726.00	3.02263	(10121421)
649908.00	4265826.00	2.89347	(13050605)	650008.00	4265826.00	2.91302	(13050605)
650108.00	4265826.00	2.94904	(13050302)	650208.00	4265826.00	2.92490	(13012601)
650308.00	4265826.00	2.96632	(12101523)	649908.00	4265926.00	2.86489	(13012601)
650008.00	4265926.00	2.87547	(13050302)	650108.00	4265926.00	2.97106	(10101420)
650208.00	4265926.00	2.98477	(13013019)	650308.00	4265926.00	2.94248	(10011118)
649908.00	4266026.00	2.89675	(13032319)	650008.00	4266026.00	2.85929	(09082622)
650108.00	4266026.00	2.95151	(10011118)	650208.00	4266026.00	3.11459	(12072103)
650308.00	4266026.00	3.06073	(13032319)	649908.00	4266126.00	3.02048	(13083022)
650008.00	4266126.00	2.94912	(13032319)	650108.00	4266126.00	3.05270	(09012217)
650208.00	4266126.00	3.34182	(09042122)	650308.00	4266126.00	3.46465	(09042122)
649908.00	4266226.00	3.11347	(09042122)	650008.00	4266226.00	3.27306	(09042122)

650108.00 4266226.00 3.25695 (13083022) 650208.00 4266226.00 3.26586 (13083022)

*** AERMOD - VERSION 14134 *** Jackson Township Development 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data 09:12:09
 PAGE 16

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** THE 4TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER				IN MICROGRAMS/M**3			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.82501	(13053123)	650450.00	4266995.00	2.79351	(12010217)
650816.00	4267310.00	2.80658	(11072301)	650824.00	4267891.00	2.77473	(11092021)
653174.00	4267141.00	3.71571	(09071720)	653512.00	4267154.00	3.30274	(10071521)
653533.00	4266892.00	3.64074	(11081619)	653826.00	4266949.00	3.17536	(12080120)
654067.00	4267505.00	2.96560	(13051120)	653808.00	4265626.00	4.53933	(10052719)
654422.00	4266037.00	2.92078	(10100421)	654749.00	4265739.00	2.64853	(12052421)
654758.00	4266883.00	3.00158	(10062721)	654810.00	4266076.00	2.88060	(10010608)
654157.00	4265797.00	3.19976	(11100318)	654393.00	4265739.00	2.81265	(10082302)
650708.00	4264027.00	2.74961	(09121908)	650808.00	4264027.00	2.93033	(12020723)
650308.00	4264127.00	3.18355	(12020618)	650408.00	4264127.00	2.95497	(12020618)
650508.00	4264127.00	2.88938	(10120424)	650608.00	4264127.00	3.00361	(09012117)
650708.00	4264127.00	2.88606	(09092606)	650808.00	4264127.00	2.83248	(09121908)
650308.00	4264227.00	3.07980	(10101320)	650408.00	4264227.00	3.07443	(09050820)
650508.00	4264227.00	3.13593	(12020618)	650608.00	4264227.00	2.88675	(12020618)
650708.00	4264227.00	2.99096	(12100224)	650808.00	4264227.00	2.96110	(10090204)
650308.00	4264327.00	2.99726	(10090205)	650408.00	4264327.00	3.05895	(13081906)
650508.00	4264327.00	3.04167	(10101320)	650608.00	4264327.00	3.10783	(09050820)
650708.00	4264327.00	3.10676	(12020618)	650808.00	4264327.00	2.88379	(09012117)
650308.00	4264427.00	2.94453	(10101320)	650408.00	4264427.00	2.95142	(11092207)
650508.00	4264427.00	2.91112	(13050324)	650608.00	4264427.00	3.10081	(13081906)
650708.00	4264427.00	3.11939	(10101320)	650808.00	4264427.00	3.20545	(09050820)
650308.00	4264527.00	2.87951	(10021220)	650408.00	4264527.00	2.84632	(09052606)
650508.00	4264527.00	2.81769	(11012021)	650608.00	4264527.00	2.98718	(13050324)
650708.00	4264527.00	3.00706	(13050324)	650808.00	4264527.00	3.03312	(13081906)
650308.00	4264126.00	3.18049	(12020618)	650008.00	4264226.00	2.84982	(13050324)
650108.00	4264226.00	2.90944	(10090205)	650208.00	4264226.00	3.02672	(10090205)
650308.00	4264226.00	3.07486	(10101320)	649908.00	4264326.00	2.72118	(10013120)
650008.00	4264326.00	2.72222	(13012606)	650108.00	4264326.00	2.84548	(11092207)
650208.00	4264326.00	2.95270	(13050324)	650308.00	4264326.00	2.99991	(10090205)
649908.00	4264426.00	2.78609	(13050306)	650008.00	4264426.00	2.77903	(13050306)
650108.00	4264426.00	2.83478	(11012021)	650208.00	4264426.00	2.79834	(10013120)
650308.00	4264426.00	2.95068	(10101320)	649908.00	4264526.00	2.67303	(13050306)
650008.00	4264526.00	2.70023	(10121023)	650108.00	4264526.00	2.78435	(10021202)
650208.00	4264526.00	2.86782	(10021220)	650308.00	4264526.00	2.87875	(11012021)
649908.00	4264626.00	2.78241	(13032923)	650008.00	4264626.00	2.76024	(13032923)
650108.00	4264626.00	2.71589	(09121718)	650208.00	4264626.00	2.75490	(09011521)
650308.00	4264626.00	2.79438	(10121023)	649908.00	4264726.00	2.77616	(10012417)
650008.00	4264726.00	2.80813	(09041901)	650108.00	4264726.00	2.84242	(10121023)
650208.00	4264726.00	2.87839	(09041901)	650308.00	4264726.00	2.84929	(09041901)
649908.00	4264826.00	2.87003	(11091807)	650008.00	4264826.00	2.90217	(11011724)

*** AERMOD - VERSION 14134 *** Jackson Township Development 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data 09:12:09
 PAGE 17

**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** THE 4TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER				IN MICROGRAMS/M**3			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.88699	(11012119)	650208.00	4264826.00	2.94105	(10012417)
650308.00	4264826.00	2.87126	(10012417)	649908.00	4264926.00	2.83102	(10082502)
650008.00	4264926.00	2.82420	(09040619)	650108.00	4264926.00	2.83293	(10011519)
650208.00	4264926.00	2.87262	(09041904)	650308.00	4264926.00	2.94661	(11011724)
649908.00	4265026.00	2.91549	(10121120)	650008.00	4265026.00	2.94509	(10082502)
650108.00	4265026.00	2.88050	(10082502)	650208.00	4265026.00	2.83698	(10082502)
650308.00	4265026.00	2.85194	(10011519)	649908.00	4265126.00	2.87247	(10121120)
650008.00	4265126.00	2.93410	(10121120)	650108.00	4265126.00	2.91879	(10121120)
650208.00	4265126.00	2.94118	(10022819)	650308.00	4265126.00	2.90933	(10022819)
649908.00	4265226.00	2.89086	(09102320)	650008.00	4265226.00	2.87745	(13042120)
650108.00	4265226.00	2.85369	(11062124)	650208.00	4265226.00	2.85416	(11062124)
650308.00	4265226.00	2.86241	(11033123)	649908.00	4265326.00	2.80167	(11082301)
650008.00	4265326.00	2.85596	(09011319)	650108.00	4265326.00	2.92432	(11091002)
650208.00	4265326.00	2.95696	(11082301)	650308.00	4265326.00	2.94378	(11091002)
649908.00	4265426.00	2.92360	(10120507)	650008.00	4265426.00	2.98753	(10120507)
650108.00	4265426.00	3.03538	(10120507)	650208.00	4265426.00	2.99950	(10120507)
650308.00	4265426.00	3.08667	(09091021)	649908.00	4265526.00	2.89087	(13021520)
650008.00	4265526.00	2.94782	(13021520)	650108.00	4265526.00	2.96891	(13021520)
650208.00	4265526.00	3.00091	(13021520)	650308.00	4265526.00	3.06120	(13021520)
649908.00	4265626.00	2.86910	(13021520)	650008.00	4265626.00	2.87798	(11012118)
650108.00	4265626.00	2.88517	(10101023)	650208.00	4265626.00	2.99949	(10101023)

650308.00	4265626.00	3.09478	(10101023)	649908.00	4265726.00	2.94390	(10121421)
650008.00	4265726.00	2.94394	(13072402)	650108.00	4265726.00	2.96694	(13072402)
650208.00	4265726.00	3.01049	(13072402)	650308.00	4265726.00	2.99461	(13072402)
649908.00	4265826.00	2.87822	(10122120)	650008.00	4265826.00	2.89541	(10122120)
650108.00	4265826.00	2.91559	(10021623)	650208.00	4265826.00	2.92189	(12101523)
650308.00	4265826.00	2.96106	(13012601)	649908.00	4265926.00	2.85929	(12101523)
650008.00	4265926.00	2.83684	(12101523)	650108.00	4265926.00	2.93132	(13013019)
650208.00	4265926.00	2.91617	(09012017)	650308.00	4265926.00	2.93674	(12072103)
649908.00	4266026.00	2.86178	(12072103)	650008.00	4266026.00	2.84565	(10011118)
650108.00	4266026.00	2.92319	(11010518)	650208.00	4266026.00	3.09532	(13083022)
650308.00	4266026.00	3.02310	(09072706)	649908.00	4266126.00	2.99037	(12072103)
650008.00	4266126.00	2.94304	(09072706)	650108.00	4266126.00	3.04343	(09042122)
650208.00	4266126.00	3.23460	(09012217)	650308.00	4266126.00	3.23957	(09012217)
649908.00	4266226.00	3.05395	(09012217)	650008.00	4266226.00	3.10538	(09012217)
650108.00	4266226.00	3.02728	(09012217)	650208.00	4266226.00	3.16318	(10062805)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFault CONC ELEV NODRYPLT NOWETDPLT PAGE 18

*** THE 5TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.77388	(10101019)	650450.00	4266995.00	2.78180	(12071203)
650816.00	4267310.00	2.80220	(09080824)	650824.00	4267891.00	2.77359	(10071422)
653174.00	4267141.00	3.62981	(11070620)	653512.00	4267154.00	3.29896	(09061820)
653533.00	4266892.00	3.61608	(12061520)	653826.00	4266949.00	3.13254	(09090919)
654067.00	4267505.00	2.79704	(10072421)	653808.00	4265626.00	4.24905	(11100318)
654422.00	4266037.00	2.85383	(10090924)	654749.00	4265739.00	2.64544	(10120218)
654758.00	4266883.00	2.59187	(12071206)	654810.00	4266076.00	2.82284	(11040520)
654157.00	4265797.00	3.15995	(12101520)	654393.00	4265739.00	2.80604	(10052719)
650708.00	4264027.00	2.73500	(09042023)	650808.00	4264027.00	2.86949	(11101502)
650308.00	4264127.00	3.06484	(13012508)	650408.00	4264127.00	2.94382	(10092720)
650508.00	4264127.00	2.83471	(12100224)	650608.00	4264127.00	2.94418	(10120424)
650708.00	4264127.00	2.86646	(10092421)	650808.00	4264127.00	2.77400	(09092707)
650308.00	4264227.00	3.02883	(10090205)	650408.00	4264227.00	3.03284	(13012508)
650508.00	4264227.00	3.04675	(13012508)	650608.00	4264227.00	2.88424	(10092421)
650708.00	4264227.00	2.97031	(10120424)	650808.00	4264227.00	2.92400	(09012117)
650308.00	4264327.00	2.97749	(11092207)	650408.00	4264327.00	2.92773	(12020618)
650508.00	4264327.00	2.98285	(10090205)	650608.00	4264327.00	3.01444	(13012508)
650708.00	4264327.00	3.04662	(13012508)	650808.00	4264327.00	2.88073	(11090921)
650308.00	4264427.00	2.89986	(13031223)	650408.00	4264427.00	2.91038	(10092802)
650508.00	4264427.00	2.89677	(11092207)	650608.00	4264427.00	2.99336	(11021808)
650708.00	4264427.00	3.04649	(10090205)	650808.00	4264427.00	3.02570	(13012508)
650308.00	4264527.00	2.87712	(11012021)	650408.00	4264527.00	2.78634	(12012001)
650508.00	4264527.00	2.81549	(13031223)	650608.00	4264527.00	2.96794	(11092207)
650708.00	4264527.00	2.98454	(11092207)	650808.00	4264527.00	3.01128	(11021808)
650308.00	4264126.00	3.06470	(13012508)	650008.00	4264226.00	2.80709	(10092720)
650108.00	4264226.00	2.85921	(11092207)	650208.00	4264226.00	2.89886	(12020618)
650308.00	4264226.00	3.02655	(10090205)	649908.00	4264326.00	2.72118	(11012120)
650008.00	4264326.00	2.70793	(11012021)	650108.00	4264326.00	2.84464	(09052606)
650208.00	4264326.00	2.87262	(09122707)	650308.00	4264326.00	2.97495	(11092207)
649908.00	4264426.00	2.63547	(13012306)	650008.00	4264426.00	2.75093	(11012021)
650108.00	4264426.00	2.82842	(09052606)	650208.00	4264426.00	2.79834	(11012120)
650308.00	4264426.00	2.90087	(13031223)	649908.00	4264526.00	2.65529	(10102723)
650008.00	4264526.00	2.65482	(13012306)	650108.00	4264526.00	2.74919	(13012306)
650208.00	4264526.00	2.75161	(11012021)	650308.00	4264526.00	2.87825	(10021220)
649908.00	4264626.00	2.77911	(09041901)	650008.00	4264626.00	2.75889	(09041901)
650108.00	4264626.00	2.69305	(09041901)	650208.00	4264626.00	2.73271	(13050306)
650308.00	4264626.00	2.71789	(09012922)	649908.00	4264726.00	2.75396	(09092507)
650008.00	4264726.00	2.78429	(09092507)	650108.00	4264726.00	2.83432	(10100820)
650208.00	4264726.00	2.87830	(13032923)	650308.00	4264726.00	2.84710	(13032923)
649908.00	4264826.00	2.85391	(10121422)	650008.00	4264826.00	2.87809	(11091807)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFault CONC ELEV NODRYPLT NOWETDPLT PAGE 19

*** THE 5TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.81651	(11011724)	650208.00	4264826.00	2.83926	(11020624)
650308.00	4264826.00	2.85004	(11020624)	649908.00	4264926.00	2.82212	(09041904)
650008.00	4264926.00	2.81935	(10022305)	650108.00	4264926.00	2.82476	(11091807)
650208.00	4264926.00	2.86048	(11091807)	650308.00	4264926.00	2.89055	(11091807)
649908.00	4265026.00	2.85418	(10082502)	650008.00	4265026.00	2.92570	(10121120)
650108.00	4265026.00	2.87233	(10012419)	650208.00	4265026.00	2.81300	(10120503)
650308.00	4265026.00	2.84651	(10082502)	649908.00	4265126.00	2.84964	(10012506)

650008.00	4265126.00	2.88450	(10012506)	650108.00	4265126.00	2.84531	(10012506)
650208.00	4265126.00	2.86911	(10012506)	650308.00	4265126.00	2.89753	(11020819)
649908.00	4265226.00	2.87230	(12100221)	650008.00	4265226.00	2.84897	(09040619)
650108.00	4265226.00	2.81153	(09042002)	650208.00	4265226.00	2.82138	(09042002)
650308.00	4265226.00	2.84184	(11062124)	649908.00	4265326.00	2.79454	(11013118)
650008.00	4265326.00	2.85086	(11013118)	650108.00	4265326.00	2.91601	(09011319)
650208.00	4265326.00	2.94262	(09011319)	650308.00	4265326.00	2.93565	(11013118)
649908.00	4265426.00	2.84176	(11012118)	650008.00	4265426.00	2.93581	(11012118)
650108.00	4265426.00	3.02189	(11012118)	650208.00	4265426.00	2.99718	(10120504)
650308.00	4265426.00	3.05977	(10120507)	649908.00	4265526.00	2.84922	(12022122)
650008.00	4265526.00	2.88239	(10021301)	650108.00	4265526.00	2.88225	(10021301)
650208.00	4265526.00	2.89118	(10021301)	650308.00	4265526.00	2.97136	(11020808)
649908.00	4265626.00	2.86753	(13070303)	650008.00	4265626.00	2.87054	(13070303)
650108.00	4265626.00	2.86027	(12081002)	650208.00	4265626.00	2.98611	(12081002)
650308.00	4265626.00	3.09018	(12081002)	649908.00	4265726.00	2.91983	(13072402)
650008.00	4265726.00	2.93103	(10101023)	650108.00	4265726.00	2.94088	(11122917)
650208.00	4265726.00	2.96314	(13050605)	650308.00	4265726.00	2.99151	(13050605)
649908.00	4265826.00	2.83999	(09092003)	650008.00	4265826.00	2.88274	(11122918)
650108.00	4265826.00	2.91163	(11122918)	650208.00	4265826.00	2.89400	(10120420)
650308.00	4265826.00	2.87630	(09012919)	649908.00	4265926.00	2.81214	(09082622)
650008.00	4265926.00	2.83650	(13012601)	650108.00	4265926.00	2.87298	(13050302)
650208.00	4265926.00	2.90762	(13032319)	650308.00	4265926.00	2.92807	(13013019)
649908.00	4266026.00	2.84918	(13013019)	650008.00	4266026.00	2.81731	(11010518)
650108.00	4266026.00	2.86751	(10120801)	650208.00	4266026.00	3.03213	(09072706)
650308.00	4266026.00	3.02178	(12072103)	649908.00	4266126.00	2.94418	(09072706)
650008.00	4266126.00	2.93954	(09012217)	650108.00	4266126.00	2.99811	(10120908)
650208.00	4266126.00	3.16895	(10120908)	650308.00	4266126.00	3.18189	(10120908)
649908.00	4266226.00	2.98068	(10120908)	650008.00	4266226.00	3.03437	(10120908)
650108.00	4266226.00	2.97255	(10120908)	650208.00	4266226.00	3.14205	(10120903)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** THE 6TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

		** CONC OF OTHER		IN MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.71653	(09052722)	650450.00	4266995.00	2.75235	(10101020)
650816.00	4267310.00	2.74972	(13072424)	650824.00	4267891.00	2.75907	(10062821)
653174.00	4267141.00	3.61265	(09071420)	653512.00	4267154.00	3.29226	(09081719)
653533.00	4266892.00	3.59092	(09082619)	653826.00	4266949.00	3.10716	(12081019)
654067.00	4267505.00	2.79676	(12072204)	653808.00	4265626.00	3.87582	(13050620)
654422.00	4266037.00	2.82670	(13100419)	654749.00	4265739.00	2.63527	(11111418)
654758.00	4266883.00	2.59046	(13070820)	654810.00	4266076.00	2.63584	(10120620)
654157.00	4265797.00	3.03599	(13041420)	654393.00	4265739.00	2.72217	(10091418)
650708.00	4264027.00	2.72390	(10090204)	650808.00	4264027.00	2.78563	(12020705)
650308.00	4264127.00	2.95953	(11050422)	650408.00	4264127.00	2.85169	(11050422)
650508.00	4264127.00	2.80459	(11011802)	650608.00	4264127.00	2.87340	(10090204)
650708.00	4264127.00	2.79871	(12100107)	650808.00	4264127.00	2.75018	(13021508)
650308.00	4264227.00	2.88593	(11020320)	650408.00	4264227.00	2.99029	(11020320)
650508.00	4264227.00	2.87511	(10012505)	650608.00	4264227.00	2.86652	(10092720)
650708.00	4264227.00	2.83685	(11090921)	650808.00	4264227.00	2.87102	(10120424)
650308.00	4264327.00	2.97494	(13050324)	650408.00	4264327.00	2.91194	(11021808)
650508.00	4264327.00	2.88414	(11020320)	650608.00	4264327.00	2.97189	(11020320)
650708.00	4264327.00	2.87733	(10012505)	650808.00	4264327.00	2.87356	(13012508)
650308.00	4264427.00	2.88397	(13050324)	650408.00	4264427.00	2.89369	(10122319)
650508.00	4264427.00	2.89390	(10090205)	650608.00	4264427.00	2.95889	(12020618)
650708.00	4264427.00	2.96883	(11021808)	650808.00	4264427.00	2.97727	(11020320)
650308.00	4264527.00	2.84579	(13050306)	650408.00	4264527.00	2.77449	(10092522)
650508.00	4264527.00	2.78958	(10101320)	650608.00	4264527.00	2.92363	(10122319)
650708.00	4264527.00	2.95008	(10122319)	650808.00	4264527.00	2.91421	(13012606)
650308.00	4264126.00	2.95932	(11050422)	650008.00	4264226.00	2.78429	(09122707)
650108.00	4264226.00	2.85203	(13050324)	650208.00	4264226.00	2.82906	(11021808)
650308.00	4264226.00	2.88856	(11020320)	649908.00	4264326.00	2.68325	(12012001)
650008.00	4264326.00	2.70446	(10092703)	650108.00	4264326.00	2.84209	(13050324)
650208.00	4264326.00	2.87245	(10122319)	650308.00	4264326.00	2.97263	(13050324)
649908.00	4264426.00	2.59504	(11012021)	650008.00	4264426.00	2.73756	(10092802)
650108.00	4264426.00	2.82071	(10021220)	650208.00	4264426.00	2.78822	(12012001)
650308.00	4264426.00	2.88724	(13050324)	649908.00	4264526.00	2.63585	(09011521)
650008.00	4264526.00	2.65460	(10010507)	650108.00	4264526.00	2.66723	(09012922)
650208.00	4264526.00	2.74440	(13012306)	650308.00	4264526.00	2.84218	(13050306)
649908.00	4264626.00	2.72261	(09011521)	650008.00	4264626.00	2.74821	(11012119)
650108.00	4264626.00	2.69161	(13032923)	650208.00	4264626.00	2.72195	(10102723)
650308.00	4264626.00	2.70417	(13012306)	649908.00	4264726.00	2.74575	(11020624)
650008.00	4264726.00	2.76469	(10120501)	650108.00	4264726.00	2.75327	(09020324)
650208.00	4264726.00	2.78936	(09020324)	650308.00	4264726.00	2.84199	(09011521)
649908.00	4264826.00	2.82197	(11092406)	650008.00	4264826.00	2.84437	(12082924)

*** AERMOD - VERSION 14134 *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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**MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT

*** THE 6TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

		** CONC OF OTHER		IN MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.77331	(11091807)	650208.00	4264826.00	2.78466	(10092501)
650308.00	4264826.00	2.80251	(09092507)	649908.00	4264926.00	2.80828	(10022305)
650008.00	4264926.00	2.80123	(11011724)	650108.00	4264926.00	2.78015	(10022305)
650208.00	4264926.00	2.81845	(11020818)	650308.00	4264926.00	2.87674	(10012417)
649908.00	4265026.00	2.84052	(12083006)	650008.00	4265026.00	2.89131	(12083006)
650108.00	4265026.00	2.84050	(10121120)	650208.00	4265026.00	2.79209	(10011519)
650308.00	4265026.00	2.79867	(10022305)	649908.00	4265126.00	2.84084	(10110420)
650008.00	4265126.00	2.85539	(10110420)	650108.00	4265126.00	2.79008	(11033123)
650208.00	4265126.00	2.81577	(11020819)	650308.00	4265126.00	2.84943	(10012506)
649908.00	4265226.00	2.84960	(09042002)	650008.00	4265226.00	2.84681	(09042002)
650108.00	4265226.00	2.80191	(13042120)	650208.00	4265226.00	2.81754	(11033123)
650308.00	4265226.00	2.82087	(09042002)	649908.00	4265326.00	2.78773	(10120504)
650008.00	4265326.00	2.84421	(11091002)	650108.00	4265326.00	2.91314	(11013118)
650208.00	4265326.00	2.94218	(11013118)	650308.00	4265326.00	2.93477	(11082301)
649908.00	4265426.00	2.77530	(09051001)	650008.00	4265426.00	2.86346	(09091021)
650108.00	4265426.00	2.96324	(09091021)	650208.00	4265426.00	2.95843	(09091021)
650308.00	4265426.00	3.04801	(10120504)	649908.00	4265526.00	2.84705	(10021301)
650008.00	4265526.00	2.86231	(12022122)	650108.00	4265526.00	2.83691	(12022122)
650208.00	4265526.00	2.82031	(12022122)	650308.00	4265526.00	2.95983	(11020724)
649908.00	4265626.00	2.86435	(11091303)	650008.00	4265626.00	2.86646	(12061601)
650108.00	4265626.00	2.84178	(09020605)	650208.00	4265626.00	2.94616	(09020605)
650308.00	4265626.00	3.03155	(09020605)	649908.00	4265726.00	2.91422	(09020605)
650008.00	4265726.00	2.92455	(12081002)	650108.00	4265726.00	2.91351	(10101023)
650208.00	4265726.00	2.95568	(10122120)	650308.00	4265726.00	2.98974	(10122120)
649908.00	4265826.00	2.83999	(09092004)	650008.00	4265826.00	2.88230	(10021623)
650108.00	4265826.00	2.90859	(12101523)	650208.00	4265826.00	2.88886	(10021623)
650308.00	4265826.00	2.87305	(10021623)	649908.00	4265926.00	2.78003	(09012919)
650008.00	4265926.00	2.83134	(10101420)	650108.00	4265926.00	2.87105	(09012919)
650208.00	4265926.00	2.87467	(12072103)	650308.00	4265926.00	2.90197	(10101420)
649908.00	4266026.00	2.77673	(11070124)	650008.00	4266026.00	2.78713	(10101420)
650108.00	4266026.00	2.86566	(09072706)	650208.00	4266026.00	3.02712	(10011118)
650308.00	4266026.00	2.99068	(13061422)	649908.00	4266126.00	2.89962	(13061422)
650008.00	4266126.00	2.91790	(11012117)	650108.00	4266126.00	2.89969	(13050606)
650208.00	4266126.00	3.00950	(11011602)	650308.00	4266126.00	3.04029	(11011602)
649908.00	4266226.00	2.84039	(11012117)	650008.00	4266226.00	2.87014	(10022820)
650108.00	4266226.00	2.92993	(10021521)	650208.00	4266226.00	3.14173	(10121108)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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**MODELOPTs: RegDFault CONC ELEV NODRYPLT NOWETDPLT

*** THE 7TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

		** CONC OF OTHER		IN MICROGRAMS/M**3		**	
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.70210	(13062901)	650450.00	4266995.00	2.72341	(11011604)
650816.00	4267310.00	2.68528	(13012603)	650824.00	4267891.00	2.71357	(10082323)
653174.00	4267141.00	3.60039	(11090719)	653512.00	4267154.00	3.25008	(11072120)
653533.00	4266892.00	3.56403	(12080920)	653826.00	4266949.00	3.10155	(09082619)
654067.00	4267505.00	2.73334	(10061622)	653808.00	4265626.00	3.55915	(10032518)
654422.00	4266037.00	2.80116	(11020606)	654749.00	4265739.00	2.60696	(10120619)
654758.00	4266883.00	2.53456	(09050103)	654810.00	4266076.00	2.60576	(13050405)
654157.00	4265797.00	2.84925	(11040520)	654393.00	4265739.00	2.70085	(10120403)
650708.00	4264027.00	2.67902	(09013101)	650808.00	4264027.00	2.77298	(11092106)
650308.00	4264127.00	2.89494	(11020320)	650408.00	4264127.00	2.82489	(10012505)
650508.00	4264127.00	2.74087	(13012508)	650608.00	4264127.00	2.82485	(12100107)
650708.00	4264127.00	2.79392	(09121908)	650808.00	4264127.00	2.74137	(12100224)
650308.00	4264227.00	2.87754	(10120506)	650408.00	4264227.00	2.90081	(11050422)
650508.00	4264227.00	2.87289	(11020320)	650608.00	4264227.00	2.82862	(09012117)
650708.00	4264227.00	2.82146	(11011802)	650808.00	4264227.00	2.82830	(12100107)
650308.00	4264327.00	2.88674	(10122319)	650408.00	4264327.00	2.87462	(13012606)
650508.00	4264327.00	2.87960	(11021808)	650608.00	4264327.00	2.84719	(10012505)
650708.00	4264327.00	2.86326	(11020320)	650808.00	4264327.00	2.83321	(10120424)
650308.00	4264427.00	2.87392	(11092207)	650408.00	4264427.00	2.87844	(09122707)
650508.00	4264427.00	2.86518	(10122319)	650608.00	4264427.00	2.93692	(13012606)
650708.00	4264427.00	2.95240	(11020320)	650808.00	4264427.00	2.85889	(10012505)
650308.00	4264527.00	2.81040	(12012001)	650408.00	4264527.00	2.74559	(10013120)
650508.00	4264527.00	2.77977	(10092703)	650608.00	4264527.00	2.92345	(13031223)
650708.00	4264527.00	2.94875	(10090205)	650808.00	4264527.00	2.89860	(12020618)
650308.00	4264126.00	2.89241	(11020320)	650008.00	4264226.00	2.77512	(10122319)
650108.00	4264226.00	2.78506	(10120508)	650208.00	4264226.00	2.80715	(13012606)
650308.00	4264226.00	2.87808	(10120506)	649908.00	4264326.00	2.66578	(10021220)
650008.00	4264326.00	2.68188	(10013120)	650108.00	4264326.00	2.83069	(13031223)
650208.00	4264326.00	2.86438	(10092720)	650308.00	4264326.00	2.88443	(10122319)
649908.00	4264426.00	2.55331	(10013120)	650008.00	4264426.00	2.72612	(10013120)
650108.00	4264426.00	2.80719	(10013120)	650208.00	4264426.00	2.77872	(13031223)
650308.00	4264426.00	2.87760	(11092207)	649908.00	4264526.00	2.59978	(10120622)
650008.00	4264526.00	2.65111	(09012922)	650108.00	4264526.00	2.66471	(10010507)
650208.00	4264526.00	2.68604	(12012001)	650308.00	4264526.00	2.81214	(12012001)
649908.00	4264626.00	2.68110	(09020324)	650008.00	4264626.00	2.71115	(09121718)

650108.00	4264626.00	2.67953	(10092522)	650208.00	4264626.00	2.68726	(09121718)
650308.00	4264626.00	2.70273	(10010507)	649908.00	4264726.00	2.71279	(13032923)
650008.00	4264726.00	2.72966	(11020624)	650108.00	4264726.00	2.75020	(09092507)
650208.00	4264726.00	2.78886	(09011521)	650308.00	4264726.00	2.77049	(09020324)
649908.00	4264826.00	2.82070	(10100820)	650008.00	4264826.00	2.82932	(10121322)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
 **MODELOPTs: RegDFAULT CONC ELEV NODRYDPLT NOWETDPLT ** PAGE 23

*** THE 7TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
650108.00	4264826.00	2.76822	(12082924)	650208.00	4264826.00	2.77989	(12082924)
650308.00	4264826.00	2.78384	(10092501)	649908.00	4264926.00	2.77901	(10012419)
650008.00	4264926.00	2.78716	(10082502)	650108.00	4264926.00	2.76860	(10120501)
650208.00	4264926.00	2.81485	(09012021)	650308.00	4264926.00	2.85584	(09041904)
649908.00	4265026.00	2.80228	(10012419)	650008.00	4265026.00	2.88188	(10012419)
650108.00	4265026.00	2.82948	(12083006)	650208.00	4265026.00	2.77764	(12083006)
650308.00	4265026.00	2.75981	(12083006)	649908.00	4265126.00	2.84084	(11090204)
650008.00	4265126.00	2.85539	(11090204)	650108.00	4265126.00	2.77646	(10110420)
650208.00	4265126.00	2.81169	(11033123)	650308.00	4265126.00	2.79634	(11033123)
649908.00	4265226.00	2.79281	(11012521)	650008.00	4265226.00	2.84062	(12100221)
650108.00	4265226.00	2.77908	(11012521)	650208.00	4265226.00	2.79339	(11012521)
650308.00	4265226.00	2.80275	(10110420)	649908.00	4265326.00	2.77511	(11091002)
650008.00	4265326.00	2.83887	(10120504)	650108.00	4265326.00	2.89612	(10120504)
650208.00	4265326.00	2.93556	(10022819)	650308.00	4265326.00	2.93352	(09011319)
649908.00	4265426.00	2.77262	(12022122)	650008.00	4265426.00	2.84389	(12022122)
650108.00	4265426.00	2.90107	(12022122)	650208.00	4265426.00	2.88081	(12022122)
650308.00	4265426.00	2.97644	(10122904)	649908.00	4265526.00	2.80817	(09121522)
650008.00	4265526.00	2.81640	(09121522)	650108.00	4265526.00	2.76606	(09121522)
650208.00	4265526.00	2.79081	(11020808)	650308.00	4265526.00	2.93752	(11020722)
649908.00	4265626.00	2.86304	(12061601)	650008.00	4265626.00	2.86283	(13021520)
650108.00	4265626.00	2.84126	(11091303)	650208.00	4265626.00	2.90415	(09092601)
650308.00	4265626.00	2.96015	(09092601)	649908.00	4265726.00	2.90977	(09012017)
650008.00	4265726.00	2.91828	(10120420)	650108.00	4265726.00	2.90172	(09092105)
650208.00	4265726.00	2.94369	(09092105)	650308.00	4265726.00	2.95744	(09092003)
649908.00	4265826.00	2.81380	(10121421)	650008.00	4265826.00	2.86743	(09092003)
650108.00	4265826.00	2.90595	(13012601)	650208.00	4265826.00	2.87681	(11122918)
650308.00	4265826.00	2.86705	(10123122)	649908.00	4265926.00	2.74199	(10101420)
650008.00	4265926.00	2.82048	(09012919)	650108.00	4265926.00	2.83873	(12101523)
650208.00	4265926.00	2.86996	(11070124)	650308.00	4265926.00	2.86234	(11010518)
649908.00	4266026.00	2.77000	(10011118)	650008.00	4266026.00	2.77869	(13013019)
650108.00	4266026.00	2.83711	(13061422)	650208.00	4266026.00	2.99920	(13061422)
650308.00	4266026.00	2.98844	(09012217)	649908.00	4266126.00	2.86620	(11010518)
650008.00	4266126.00	2.91348	(12072103)	650108.00	4266126.00	2.88965	(11050423)
650208.00	4266126.00	2.98116	(13050606)	650308.00	4266126.00	2.97951	(10021521)
649908.00	4266226.00	2.81507	(13050606)	650008.00	4266226.00	2.86676	(11011602)
650108.00	4266226.00	2.87987	(10022820)	650208.00	4266226.00	3.09986	(10021521)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
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*** THE 8TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
 INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER		IN MICROGRAMS/M**3		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
649746.00	4266713.00	2.68820	(11082322)	650450.00	4266995.00	2.72119	(09080924)
650816.00	4267310.00	2.68034	(09052602)	650824.00	4267891.00	2.69856	(13071001)
653174.00	4267141.00	3.50060	(12080919)	653512.00	4267154.00	3.21183	(12081119)
653533.00	4266892.00	3.54853	(09062320)	653826.00	4266949.00	3.09730	(10121017)
654067.00	4267505.00	2.72753	(10121017)	653808.00	4265626.00	3.25775	(10091418)
654422.00	4266037.00	2.70316	(12070920)	654749.00	4265739.00	2.59535	(10120403)
654758.00	4266883.00	2.49939	(10080205)	654810.00	4266076.00	2.55003	(10012718)
654157.00	4265797.00	2.78346	(12080105)	654393.00	4265739.00	2.59118	(13041420)
650708.00	4264027.00	2.66645	(12012002)	650808.00	4264027.00	2.77055	(10122406)
650308.00	4264127.00	2.88761	(10012505)	650408.00	4264127.00	2.79556	(10092421)
650508.00	4264127.00	2.69971	(13081906)	650608.00	4264127.00	2.77985	(10101506)
650708.00	4264127.00	2.79157	(09012117)	650808.00	4264127.00	2.69900	(09013101)
650308.00	4264227.00	2.84116	(11021808)	650408.00	4264227.00	2.87624	(10090205)
650508.00	4264227.00	2.85552	(11050422)	650608.00	4264227.00	2.79570	(11011802)
650708.00	4264227.00	2.76399	(12100107)	650808.00	4264227.00	2.79408	(11090921)
650308.00	4264327.00	2.88083	(09122707)	650408.00	4264327.00	2.81597	(13050324)
650508.00	4264327.00	2.77607	(13012508)	650608.00	4264327.00	2.80356	(10090205)
650708.00	4264327.00	2.79904	(11050422)	650808.00	4264327.00	2.79460	(11011802)
650308.00	4264427.00	2.86607	(10092703)	650408.00	4264427.00	2.86893	(13031223)
650508.00	4264427.00	2.84129	(09122707)	650608.00	4264427.00	2.87808	(13050324)
650708.00	4264427.00	2.84451	(13012508)	650808.00	4264427.00	2.77210	(10090205)

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

Table with columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Contains 100 rows of data points.

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
*** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
MODELPTS: RegDFault CONC ELEV NODRYDPLT NOWETDPLT * PAGE 29

*** THE 10TH HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL
INCLUDING SOURCE(S): REN ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

Table with columns: X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH), X-COORD (M), Y-COORD (M), CONC, (YYMMDDHH). Contains 100 rows of data points.

650308.00	4266026.00	2.94900	(11050423)	649908.00	4266126.00	2.83729	(11012117)
650008.00	4266126.00	2.88955	(10120908)	650108.00	4266126.00	2.86053	(09072706)
650208.00	4266126.00	2.94494	(12080824)	650308.00	4266126.00	2.94237	(10083124)
649908.00	4266226.00	2.76612	(11013117)	650008.00	4266226.00	2.80345	(10021521)
650108.00	4266226.00	2.85114	(10121108)	650208.00	4266226.00	2.98353	(09012217)

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
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*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

NETWORK GROUP ID GRID-ID		AVERAGE CONC (YYMMDDHH)	DATE	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE
ALL	HIGH 1ST HIGH VALUE IS	5.07375	ON 12052421: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 2ND HIGH VALUE IS	4.88517	ON 12100818: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 3RD HIGH VALUE IS	4.64072	ON 13041420: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 4TH HIGH VALUE IS	4.53933	ON 10052719: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 5TH HIGH VALUE IS	4.24905	ON 11100318: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 6TH HIGH VALUE IS	3.87582	ON 13050620: AT (	653808.00,	4265626.00,	46.66, 46.66, 0.00) DC
	HIGH 7TH HIGH VALUE IS	3.60039	ON 11090719: AT (	653174.00,	4267141.00,	49.53, 49.53, 0.00) DC
	HIGH 8TH HIGH VALUE IS	3.54853	ON 09062320: AT (	653533.00,	4266892.00,	49.50, 49.50, 0.00) DC
	HIGH 9TH HIGH VALUE IS	3.52409	ON 09061820: AT (	653533.00,	4266892.00,	49.50, 49.50, 0.00) DC
	HIGH 10TH HIGH VALUE IS	3.51275	ON 12080119: AT (	653533.00,	4266892.00,	49.50, 49.50, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

*** AERMOD - VERSION 14134 *** *** Jackson Township Development *** 04/17/15
 *** AERMET - VERSION 14134 *** *** Odor Modeling - Sacramento Mather Airport MET Data *** 09:12:09
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*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
 A Total of 0 Warning Message(s)
 A Total of 16147 Informational Message(s)
 A Total of 43872 Hours Were Processed
 A Total of 8436 Calm Hours Identified
 A Total of 7711 Missing Hours Identified (17.58 Percent)

CAUTION!: Number of Missing Hours Exceeds 10 Percent of Total!
 Data May Not Be Acceptable for Regulatory Applications.
 See Section 5.3.2 of "Meteorological Monitoring Guidance
 for Regulatory Modeling Applications" (EPA-454/R-99-005).

***** FATAL ERROR MESSAGES *****
 *** NONE ***

***** WARNING MESSAGES *****
 *** NONE ***

 *** AERMOD Finishes Successfully ***
